

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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ASSESSMENT REPORT

describing

MECHANIZED TRENCHING AND GEOCHEMICAL SAMPLING

at the

SHAMROCK PROPERTY

Shamrock 1-12 YC19871-YC19882

NTS 115I/04

Latitude 62°00'N; Longitude 137°53'W

located in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

WOLVERINE MINERALS CORP.

by

Heather Smith, B.Sc., P.Geo.

February 2012

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INTRODUCTION

The Shamrock property hosts a copper-molybdenum-gold porphyry target. The property lies within the Dawson Range Gold Belt of western Yukon. Wolverine Minerals Corp. optioned the Shamrock property from 4763 NWT Ltd. in spring 2011 and following the 2011 exploration program terminated its option.

This report describes a program of soil sampling and CanDig excavator trenching, which was conducted by Archer, Cathro & Associates (1981) Limited in summer 2012 on behalf of Wolverine. The author directed this project and has interpreted all data from resulting from this work and her Statement of Qualifications is in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Shamrock property consists of 12 contiguous mineral claims, which are located on NTS map sheet 115I/04 at latitude 62°00' north and longitude 137°52' west (Figure 1). The property covers an area of approximately 243 ha (2.43 sq km). The claims are registered with the Whitehorse Mining Recorder in the name of 4763 NWT Ltd. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Shamrock 1-12	YC19871-YC19882	April 15, 2017

* Expiry date includes 2011 work that has been filed for assessment credit but has not yet been accepted.

Access to and from the property was provided by a Bell 206B helicopter owned and operated by Capital Helicopters (1995) Inc. of Whitehorse, from a temporary base at Rockhaven Resources Ltd.'s Klaza property located near the former Mount Nansen Mine. The Klaza property lies about 35 km east-northeast of the Shamrock property and 70 km by road west of the community of Carmacks.

HISTORY AND PREVIOUS WORK

The Shamrock property was initially staked by Amax Potash Ltd. as the Pot claims in 1969 (Deklerk and Traynor, 2005). Work programs in 1969 and 1970 comprised soil sampling, hand pitting, geophysical surveys and packsack drilling (75 m in four holes). In 1976, Western Mines Ltd. joint ventured the property and drilled six holes (740 m). The claims were allowed to lapse following this work.

In 1985, the ALO claims were staked by Freegold Venture, which was funded by Chevron Canada Resources Ltd. and managed by Archer Cathro. Positive results from a soil sampling program lead to the staking of additional claims, but no further work was done. In 1990 Big Creek Resources Ltd. purchased the ALO claims.

WOLVERINE MINERALS CORP.

FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

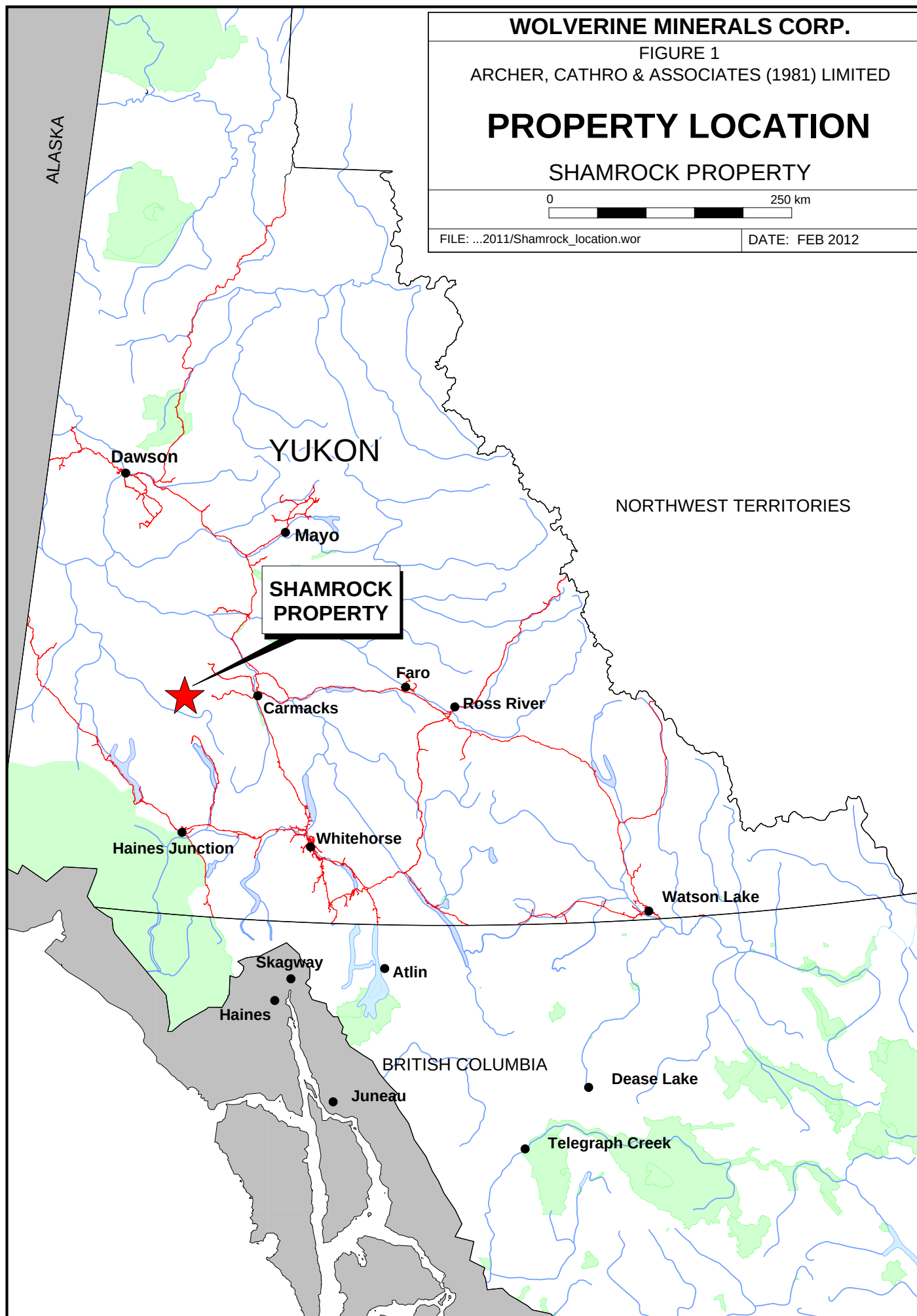
PROPERTY LOCATION

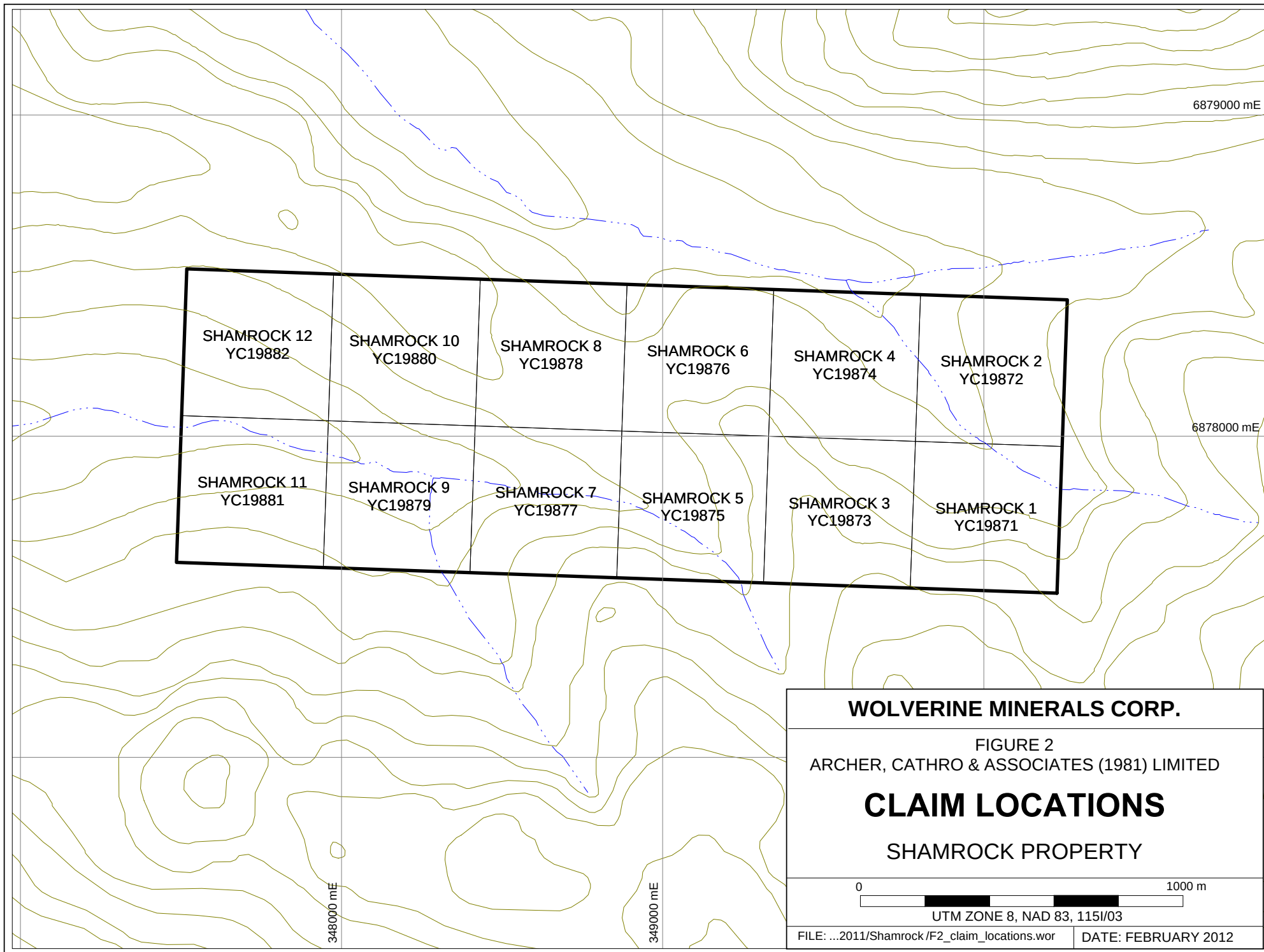
SHAMROCK PROPERTY

0 250 km

FILE: ...2011/Shamrock_location.wor

DATE: FEB 2012





In 2003, 4763 NWT Ltd. staked the Shamrock claims and performed soil sampling and a ground total magnetic field survey. In 2004, Copper Ridge Explorations Inc. optioned the Shamrock claims and staked an additional 14 claims. Copper Ridge performed geological mapping and an induced polarization survey before terminating its option.

In 2005, 4763 NWT Ltd. carried out a hand trenching program on the original Shamrock claims.

GEOMORPHOLOGY AND CLIMATE

The Shamrock property is situated in the southern part of the Dawson Range. It is drained by tributaries of Maloney Creek, which flows into the Nisling River and ultimately into the Pacific Ocean via the Yukon River. During the pre-Reid glacial episode (circa 3Ma) the Shamrock property was glaciated (LeBarge, 1996).

The property straddles a low ridge that separates two westerly-flowing creeks. Elevations range from about 1000 to 1220 m above sea level. The property lies below treeline; however, most of it was burnt in a recent forest fire. Vegetation within the burnt areas comprises moss, buckbrush and willows. Slopes unaffected by the fire are heavily vegetated with spruce and balsam trees and an understory of buckbrush and moss.

Climate in the Shamrock area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively mild, arctic cold fronts often cover the area and snowfall can occur in any month. The property is mostly snow free from late May to late September.

GEOLOGY

In 2003, Gordey and Makepeace compiled the geology in the Shamrock property area. The property is underlain by Late Proterozoic to Paleozoic Nisling Assemblage comprised of dark grey to brown, biotite-muscovite-quartz-feldspar schist, quartzite and micaceous quartzite; garnetiferous; felsic chlorite-biotite orthogneiss; rare amphibolite, minor two-mica gneiss and hornblende diorite gneiss.

A minor amount of property-scale mapping was performed by G. Belik on the Shamrock claims in 2011 (Figure 3). A finger of dacite porphyry bisects the northeastern part of the property and is thought to be a sub-unit of the Nisling Assemblage. In the northwestern corner of the property a body of Middle Cretaceous Whitehorse Suite intrudes the Nisling Assemblage. The main lithologies identified in CanDig trenches were feldspar±biotite phyric diorite and micaceous schist.

SOIL GEOCHEMISTRY

In 2011, 270 soil samples were collected from the property. In many areas soil sampling was hindered by frozen ground, especially on north-facing slopes. Sample locations are plotted on Figure 4, while Certificates of Analysis are provided in Appendix II.

The samples were collected from two grids, at 50 m spacings on lines spaced 50 or 200 m apart. Sample locations were recorded using hand-held GPS units and were marked by 0.5 m wooden pickets with aluminum tags inscribed with sample numbers. The samples were taken from auger holes at depths of 30 to 60 cm below surface. They were placed into individually pre-numbered Kraft paper bags.

All soil samples were dried, screened to -180 microns, and then analyzed for 35 elements using an aqua regia digestion followed by inductively coupled plasma and atomic emission spectrometry (ME-ICP41). An additional 30 g charge was further analyzed for gold by fire assay fusion with inductively coupled plasma and atomic emission spectrometry (Au-ICP21).

Results from the soil sampling program were generally positive, with clusters of coincident moderately to strongly anomalous copper and molybdenum values within the main (50 by 200 m spacing) grid. Gold values were weakly to moderately anomalous within this grid (up to 84 ppb). The secondary grid in the northeast corner of the property (50 by 50 m spacing) returned numerous moderately to strongly anomalous values for gold (up to 305 ppb) and weakly to moderately anomalous values for copper (up to 148 ppm) and molybdenum (up to 10 ppm).

MECHANIZED TRENCHING

In 2011, two CanDig excavators completed eight trenches (about 1300 m) on the Shamrock claims (Figure 4). Figures 5 to 12 show geological sections and rock sample numbers. Multi-element analyses (Au-AA24 and ME-ICP41) for rock samples were carried out at ALS Chemex in North Vancouver, B.C. Each sample was dried, fine crushed to better than 70% passing -2 mm and then a 250 g split was pulverized to better than 85% passing 75 micron. The fine fraction was then analyzed for gold using fire assay followed by atomic absorption (AA) finish and for 35 other elements using a nitric acid-aqua regia digestion and ICP analysis. Certificates of Analysis are provided in Appendix II.

Trenches ranged from 12 to 389 m in length and did not exceed 0.75 m depth. The trenches were mapped and sampled prior to reclamation.

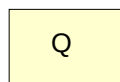
Two hundred and three chip samples were collected from the trenches. Results were disappointingly low, with the exception of Trench-01, which returned moderately anomalous values from three separate intervals including: 0.431 g/t gold across five metres (K974736), 0.15% copper over five metres (K974717) and 196 ppm molybdenum over four metres (K974729).

DISCUSSION AND CONCLUSIONS

The Shamrock property lies within a highly prospective package of rocks known for hosting significant copper-gold-molybdenum porphyry mineralization.

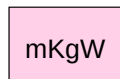
The 2011 soil sampling yielded encouraging results, but CanDig trenching was unable to identify significant porphyry type mineralization.

QUATERNARY



Overburden

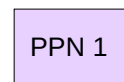
MIDDLE CRETACEOUS



WHITEHORSE SUITE

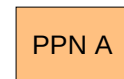
Biotite-hornblende granodiorite, diorite; locally porphyritic

LATE PROTEROZOIC TO PALEOZOIC



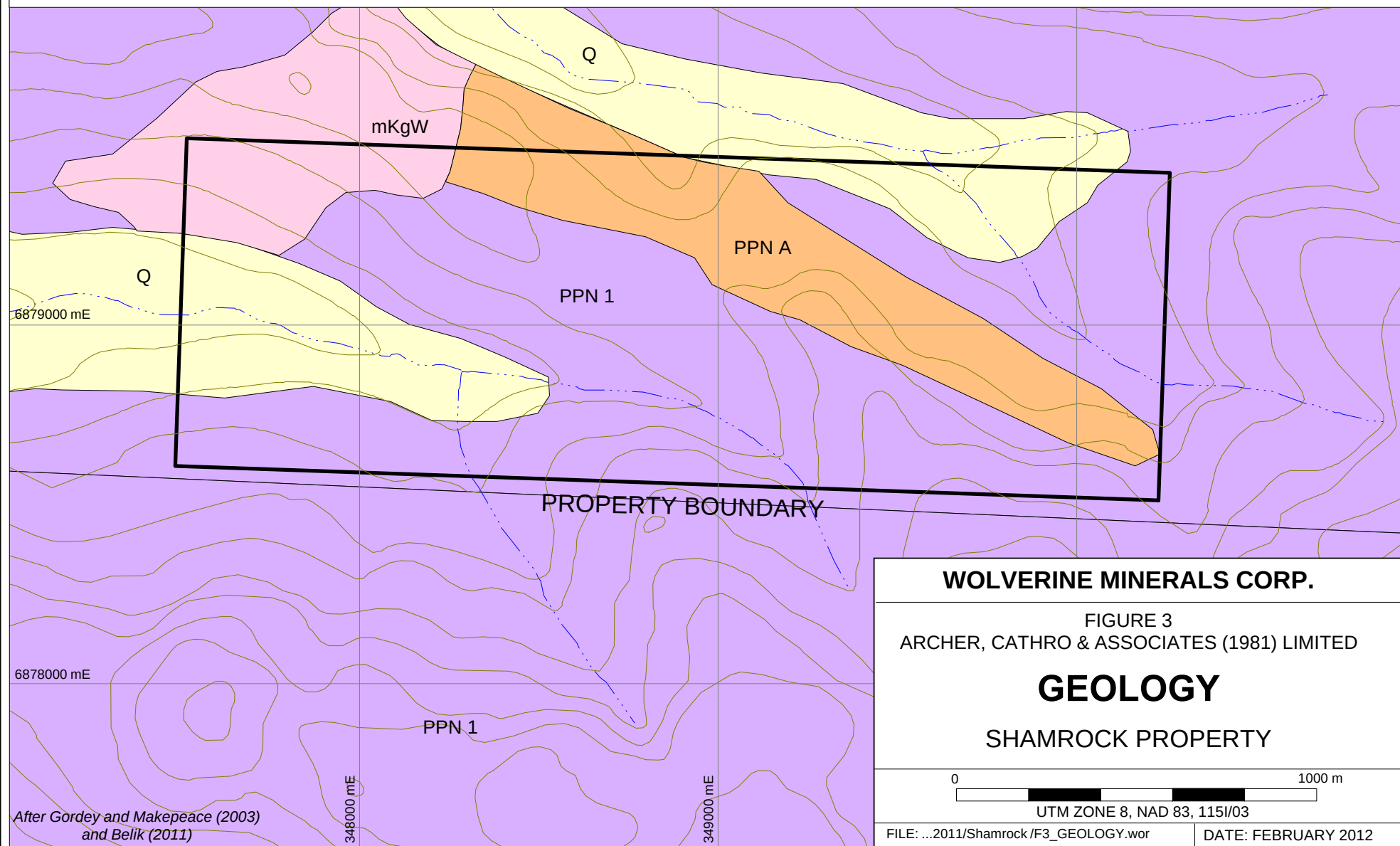
NISLING ASSEMBLAGE

Dark grey to brown, biotite-muscovite-quartz-feldspar schist, quartzite and micaceous quartzite, garnetiferous; felsic chlorite-biotite orthogneiss; rare amphibolite; minor two-mica gneiss and hornblende diorite gneiss.



PPN A

Dacite porphyry

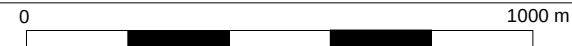


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FIGURE 3
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY

SHAMROCK PROPERTY



UTM ZONE 8, NAD 83, 115I/03

FILE: ...2011/Shamrock /F3_GEOLOGY.wor

DATE: FEBRUARY 2012

WOLVERINE MINERALS CORP.

FIGURE 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SOIL SAMPLE LOCATIONS

SHAMROCK PROPERTY

0 1000 m

UTM ZONE 8, NAD 83, 115I/03

FILE: ...2011/Shamrock /F4_soil_locations.wor

DATE: FEBRUARY 2012

6879000 mE

6878000 mE

TR-11-01

TR-11-14

TR-11-04

TR-11-03

TR-11-02

TR-11-08

TR-11-16

TR-11-13

PROPERTY BOUNDARY

2011 CanDig trench location

INSET

PROPERTY BOUNDARY

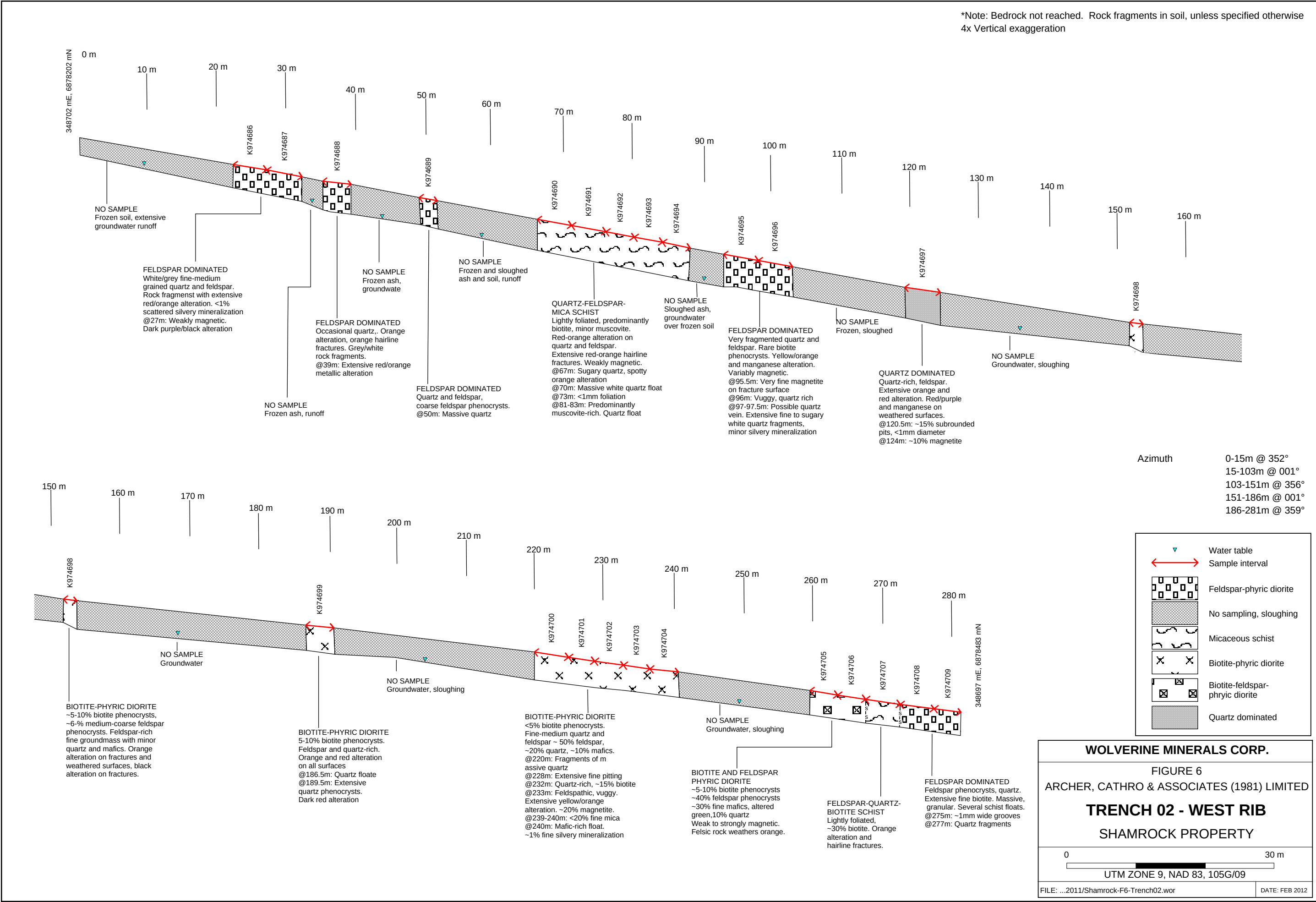
0 200 m

SEE INSET

349000 mE

350000 mE

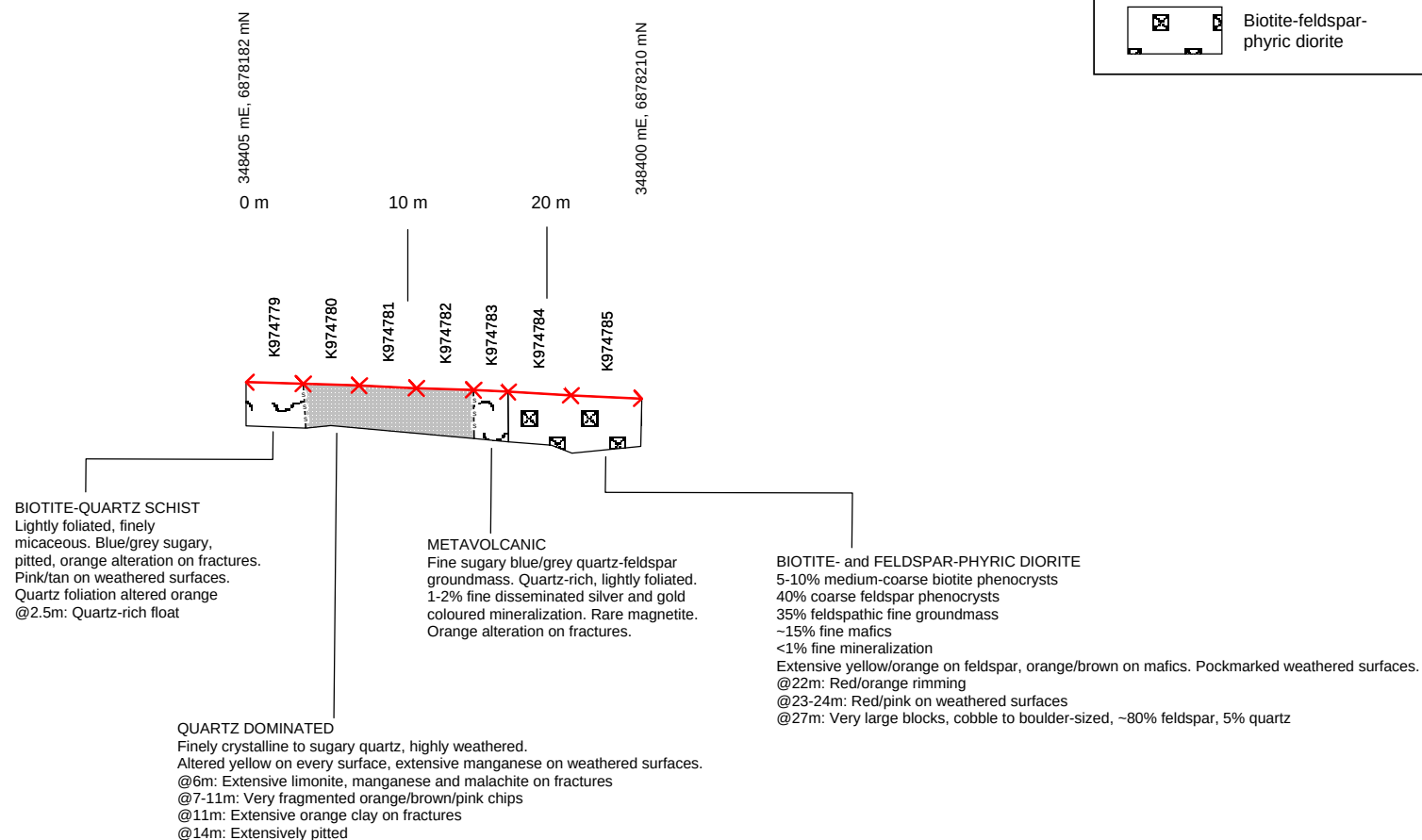
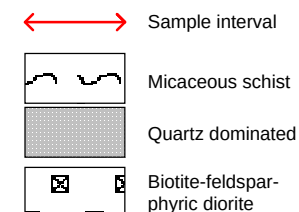
*Note: Bedrock not reached. Rock fragments in soil, unless specified otherwise
4x Vertical exaggeration



*Note: Trench fragmented rock, unless specified otherwise
4x Vertical exaggeration

Azimuth

0-10m @ 354°
10-28m @ 348°



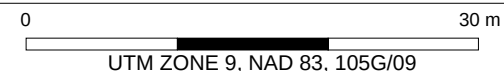
WOLVERINE MINERALS CORP.

FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TRENCH 08 - WEST RIB

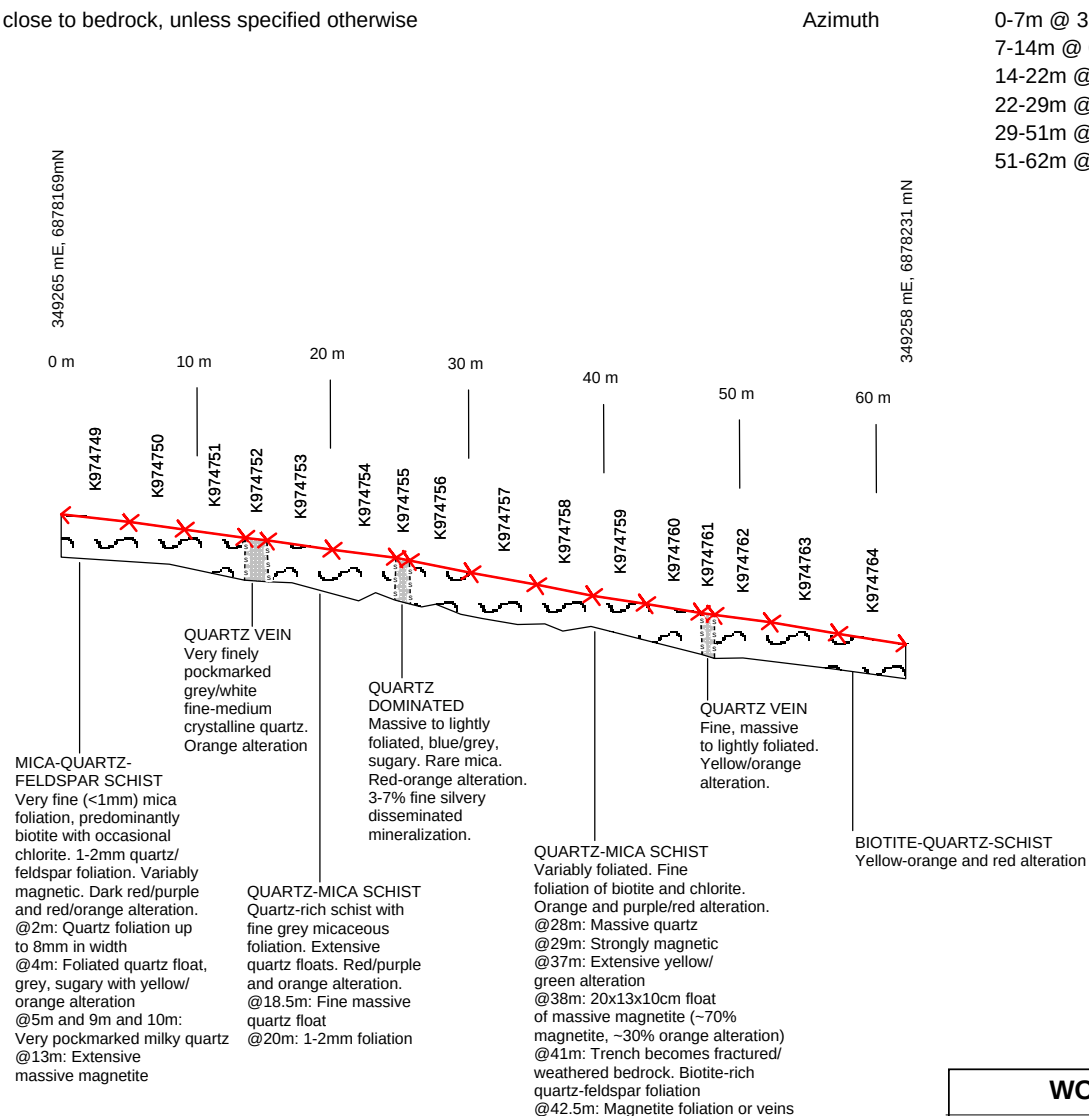
SHAMROCK PROPERTY



FILE: ...2011/Shamrock-F9-Trench08.wor

DATE: FEB 2012

*Note: Trench fragmented/fractured rock close to bedrock, unless specified otherwise
4x Vertical exaggeration



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FIGURE 10
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

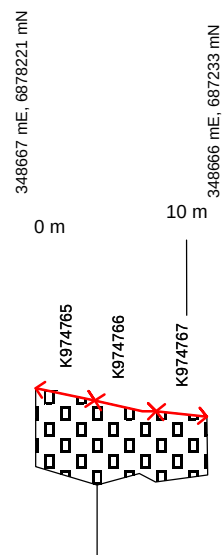
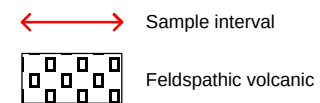
TRENCH 13 - WEST RIB SHAMROCK PROPERTY

0 30 m
UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/Shamrock-F10-Trench13.wor

DATE: FEB 2012

0-11.5m @ 356°



Highly weathered and fragmented feldspar-rich with quartz-rich regions.
Muscovite and biotite phenocrysts. Extensive pervasive red/orange and orange/brown alteration.
Occasional dark fine mafics, up to 15%.
@0.5m: Muscovite-rich foliated float-muscovite quartz schist
@2m: Fine crystalline grey massive quartz float
@4 and 6m: ~5% magnetite, predominantly on fractures
@6-7m: Several biotite-rich schistose floats
@9.5m: Muscovite-rich float
@10.5m: ~5% coarse biotite phenocrysts, coarse feldspars

0 30 m

UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/Shamrock11-Trench14.wor

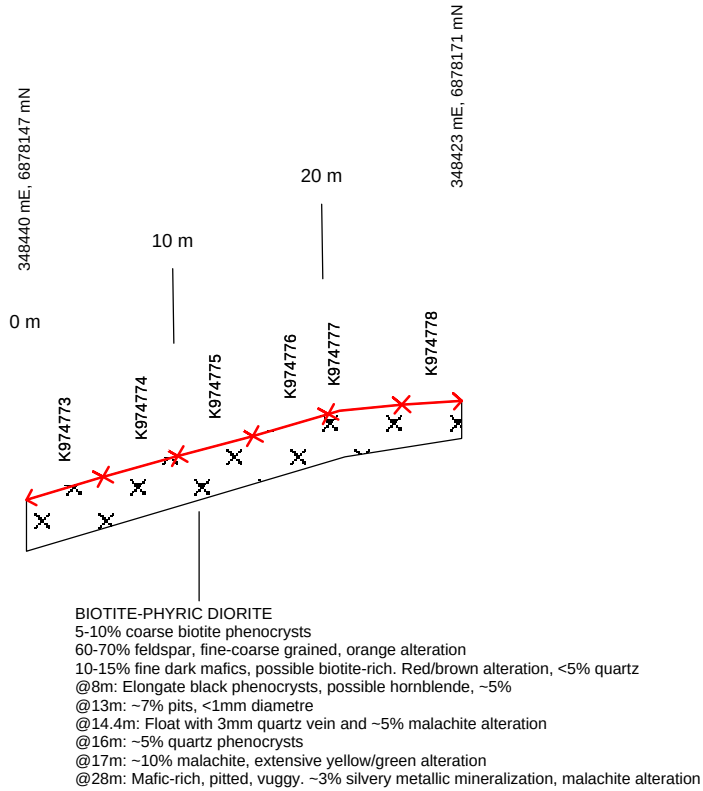
DATE: FEB 2012

*Note: Trench fractured/fragmented bedrock, unless specified otherwise
4x Vertical exaggeration

Azimuth

0-9m @ 323°
9-22m @ 321°
22-29m @ 331°

Sample interval
Biotite-phyric diorite



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FIGURE 12	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
TRENCH 16 - SOUTHWEST RIB	
SHAMROCK PROPERTY	
0 30 m	
UTM ZONE 9, NAD 83, 105G/09	
FILE: ...2011/DShamrock-F12-Trench16.wor	DATE: FEB 2012

The moderately to strongly anomalous gold, copper and molybdenum soil sample values warrant additional follow up work. Wolverine had planned to conduct an induced polarization survey, but was unable to secure a geophysical contractor to perform the work.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Heather Smith, B.Sc., P.Geo.

REFERENCES

- Belik, G.
 2011 Reconnaissance geological mapping of the DDD/Shamrock claim block.
- Deklerk, R. and Traynor, S.
 2005 Yukon MINFILE – A database of mineral occurrences; Yukon Geological Survey. Available at:
<http://servlet.gov.yk.ca/ygsmin/occurrence.do?occurrenceID=105A+023>
- Gordey, S.P. and Makepeace, A.J.
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- LeBarge, W.P.
 1996. Placer deposits of the Yukon: Overview and potential for new discoveries. In: Yukon Quaternary Geology Volume 1, Exploration and Geological Services Division, Northern Affairs Program, Yukon Region, p. 1-12.

APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Heather Smith, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Squamish, British Columbia do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B. Sc in Geological Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Professional Geoscientist (P.Geo.) with the Association of Professional Engineers and Geoscientists of British Columbia (34689).
4. I have personally directed the fieldwork reported herein and have interpreted all data resulting from this work.

Heather Smith, B.Sc., P.Geo.

APPENDIX II
CERTIFICATES OF ANALYSIS



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 2- AUG- 2011
Account: F

CERTIFICATE WH11119968

Project: Wolverine- DDD

P.O. No.:

This report is for 91 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28-JUN- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01



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**Page: 2 - B
Total # Pages: 4 (A - C)
Finalized Date: 2- AUG- 2011
Account: F**

Project: Wolverine- DDD

CERTIFICATE OF ANALYSIS WH11119968

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	MEICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1



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**Page: 2 - C
Total # Pages: 4 (A - C)
Finalized Date: 2- AUG- 2011
Account: F**

Project: Wolverine- DDD

CERTIFICATE OF ANALYSIS WH11119968

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2



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Page: 3 - A
Total # Pages: 4 (A - C)
Finalized Date: 2- AUG- 2011
Account: F

Project: Wolverine- DDD

CERTIFICATE OF ANALYSIS WH11119968

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME-CP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130218		0.33	0.011	<0.2	1.73	31	<10	110	0.6	2	0.24	<0.5	17	41	37	3.77
CC130219		0.50	0.014	0.3	2.34	31	<10	140	0.8	2	0.23	<0.5	12	42	39	4.25
CC130220		0.38	0.014	0.3	2.02	18	<10	150	0.5	2	0.25	<0.5	8	35	30	3.08
CC130221		0.35	0.016	0.2	1.64	18	<10	130	0.5	2	0.23	<0.5	7	33	29	3.15
CC130222		0.48	0.028	0.4	2.27	27	<10	230	0.9	2	0.24	<0.5	10	41	58	3.76
CC130223		0.36	0.016	<0.2	1.62	16	<10	120	<0.5	2	0.24	<0.5	6	29	22	2.54
CC130224		0.39	0.014	<0.2	1.44	11	<10	120	<0.5	<2	0.28	<0.5	7	27	24	2.38
CC130225		0.37	0.009	<0.2	1.51	14	<10	120	<0.5	2	0.27	<0.5	7	27	19	2.46
CC130226		0.29	0.038	<0.2	1.20	12	<10	110	<0.5	<2	0.26	<0.5	7	22	22	2.31
CC130227		0.35	0.018	<0.2	0.93	10	<10	260	<0.5	<2	0.25	<0.5	8	20	65	2.74
CC130228		0.36	0.014	0.2	1.06	8	<10	210	<0.5	2	0.22	<0.5	4	19	22	2.31
CC130229		0.38	0.015	<0.2	1.10	13	<10	170	<0.5	<2	0.21	<0.5	4	18	19	1.72
CC130230		0.43	0.016	<0.2	1.22	17	<10	160	<0.5	2	0.18	<0.5	5	21	35	2.70
CC130231		0.50	0.041	0.4	0.76	42	<10	330	<0.5	3	0.11	<0.5	6	14	53	4.65
CC130232		0.36	0.019	<0.2	1.65	12	<10	140	0.6	2	0.21	<0.5	7	26	39	3.14
CC130233		0.46	0.020	0.3	2.02	17	<10	130	0.7	2	0.19	<0.5	12	37	70	3.78
CC130234		0.48	0.015	<0.2	2.16	15	<10	150	0.7	2	0.27	<0.5	11	45	76	3.55
CC130235		0.47	0.006	0.2	1.82	15	<10	120	0.6	<2	0.16	<0.5	9	32	29	3.20
CC130236		0.52	0.005	<0.2	2.53	18	<10	110	0.7	3	0.16	<0.5	11	37	20	4.16



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CERTIFICATE OF ANALYSIS WH11119968

[illegible]



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130218		<20	0.10	<10	<10	60	<10	89
CC130219		<20	0.08	<10	<10	60	<10	77
CC130220		<20	0.08	<10	<10	53	<10	69
CC130221		<20	0.08	<10	<10	48	<10	59
CC130222		<20	0.08	<10	<10	56	<10	70
CC130223		<20	0.08	<10	<10	43	<10	55
CC130224		<20	0.10	<10	<10	43	<10	51
CC130225		<20	0.09	<10	<10	43	<10	51
CC130226		<20	0.08	<10	<10	42	<10	44
CC130227		<20	0.06	<10	<10	34	<10	33
CC130228		<20	0.06	<10	<10	40	<10	27
CC130229		<20	0.05	<10	<10	30	<10	27
CC130230		<20	0.05	<10	<10	32	<10	28
CC130231		20	0.02	<10	<10	20	<10	21
CC130232		<20	0.07	<10	<10	39	<10	43
CC130233		<20	0.11	<10	<10	59	<10	57
CC130234		<20	0.11	<10	<10	60	<10	61
CC130235		<20	0.07	<10	<10	63	<10	46
CC130236		<20	0.10	<10	<10	63	<10	66



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1



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P.O. No.:

This report is for 238 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28-JUN- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME-ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130505		0.49	0.008	0.5	2.20	41	<10	120	0.6	2	0.15	<0.5	10	38	28	3.89
CC130506		0.55	0.012	0.2	1.82	28	<10	120	0.6	<2	0.18	<0.5	12	32	26	3.10
CC130507		0.43	0.003	0.4	1.25	11	<10	90	<0.5	<2	0.17	<0.5	6	25	21	2.47
CC130508		0.40	0.015	0.5	1.90	11	<10	120	0.6	<2	0.20	<0.5	9	31	41	2.76
CC130509		0.57	0.009	0.7	1.64	10	<10	110	0.5	<2	0.19	<0.5	6	28	35	2.80
CC130510		0.47	0.031	0.4	0.98	26	<10	230	<0.5	<2	0.12	<0.5	7	17	37	3.15
CC130511		0.45	0.013	<0.2	2.17	21	<10	170	<0.5	<2	0.19	<0.5	10	33	22	3.17
CC130512		0.54	0.008	0.2	2.47	9	<10	180	0.7	<2	0.13	<0.5	9	37	19	2.88
CC130513		0.38	0.006	<0.2	1.47	14	<10	120	<0.5	<2	0.14	<0.5	4	27	15	3.53
CC130514		0.32	0.062	<0.2	0.96	12	<10	320	<0.5	<2	0.12	<0.5	2	14	20	2.46
CC130515		0.44	0.010	<0.2	1.20	8	<10	200	<0.5	<2	0.21	<0.5	4	22	24	2.20
CC130516		0.53	0.011	<0.2	1.40	10	<10	210	<0.5	<2	0.24	<0.5	5	24	43	2.67
CC130517		0.55	0.015	<0.2	1.64	9	<10	200	0.5	<2	0.20	<0.5	6	27	80	2.64
CC130518		0.54	0.028	<0.2	1.77	9	<10	200	0.7	<2	0.23	<0.5	10	30	143	3.18
CC130519		0.37	0.044	<0.2	1.79	8	<10	310	0.8	<2	0.20	<0.5	9	28	218	2.96
CC130520		0.67	0.043	<0.2	1.64	7	<10	280	0.5	<2	0.19	<0.5	6	28	155	2.57
CC130521		0.37	0.022	<0.2	1.01	5	<10	190	<0.5	<2	0.19	<0.5	3	17	77	1.82
CC130522		0.51	0.019	<0.2	1.28	7	<10	220	<0.5	<2	0.22	<0.5	4	21	90	1.98
CC130523		0.37	0.018	<0.2	1.40	4	<10	210	<0.5	<2	0.23	<0.5	4	22	84	2.02



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	MEICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC130505		10	<1	0.13	20	0.59	393	<1	0.01	30	440	12	0.04	<2	4	18
CC130506		10	<1	0.13	30	0.61	376	<1	0.01	25	370	9	0.02	<2	3	20
CC130507		10	<1	0.07	10	0.37	245	<1	0.02	13	370	7	0.03	<2	2	18
CC130508		10	<1	0.09	10	0.45	276	<1	0.02	20	520	7	0.02	<2	3	19
CC130509		10	<1	0.09	10	0.37	251	<1	0.02	15	450	10	0.03	<2	3	22
CC130510		<10	<1	0.20	20	0.22	164	<1	0.02	11	550	8	0.33	<2	1	32
CC130511		10	<1	0.13	10	0.48	290	<1	0.02	21	460	9	0.15	<2	3	20
CC130512		10	<1	0.08	10	0.49	286	<1	0.02	19	300	6	0.05	<2	5	14
CC130513		10	<1	0.07	10	0.32	186	1	0.01	11	400	7	0.07	<2	3	22
CC130514		10	<1	0.13	20	0.11	55	4	0.03	6	1120	9	0.27	<2	1	114
CC130515		<10	<1	0.05	10	0.31	110	2	0.01	10	570	6	0.02	<2	3	22
CC130516		<10	<1	0.07	10	0.36	119	2	0.01	13	680	7	0.02	<2	3	22
CC130517		10	<1	0.07	20	0.44	144	6	0.01	14	610	9	0.02	<2	3	19
CC130518		10	<1	0.11	10	0.51	260	12	0.01	18	630	7	0.06	<2	3	26
CC130519		10	<1	0.12	20	0.38	225	12	0.02	17	690	8	0.08	<2	3	31
CC130520		10	<1	0.10	20	0.41	104	8	<0.01	15	660	8	0.04	3	3	25
CC130521		<10	<1	0.07	10	0.27	84	6	0.01	10	620	6	0.04	<2	1	21
CC130522		<10	<1	0.08	10	0.34	99	7	0.01	11	630	6	0.03	<2	2	22
CC130523		10	<1	0.07	10	0.37	117	7	0.02	13	590	7	0.03	<2	2	23



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130505		<20	0.07	<10	<10	61	<10	96
CC130506		<20	0.05	<10	<10	41	<10	53
CC130507		<20	0.08	<10	<10	58	<10	45
CC130508		<20	0.07	<10	<10	55	<10	50
CC130509		<20	0.07	<10	<10	57	<10	41
CC130510		<20	0.02	<10	<10	30	<10	31
CC130511		<20	0.08	<10	<10	57	<10	48
CC130512		<20	0.09	<10	<10	60	<10	45
CC130513		<20	0.11	<10	<10	91	<10	41
CC130514		<20	0.03	<10	<10	25	<10	18
CC130515		<20	0.06	<10	<10	37	<10	31
CC130516		<20	0.06	<10	<10	44	<10	36
CC130517		<20	0.07	<10	<10	44	<10	39
CC130518		<20	0.07	<10	<10	49	<10	45
CC130519		<20	0.04	<10	<10	44	<10	35
CC130520		<20	0.05	<10	<10	38	<10	34
CC130521		<20	0.04	<10	<10	31	<10	25
CC130522		<20	0.05	<10	<10	35	<10	32
CC130523		<20	0.05	<10	<10	34	<10	34



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- GP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130553		0.49	0.010	0.2	1.32	12	<10	90	<0.5	<2	0.26	<0.5	8	27	15	2.28
CC130554		0.47	0.013	0.4	2.13	17	<10	380	0.9	<2	0.30	<0.5	13	43	68	3.32
CC130555		0.63	0.020	0.2	1.98	19	<10	210	0.6	<2	0.23	<0.5	9	36	42	3.33
CC130556		0.48	0.010	<0.2	1.94	14	<10	220	0.6	<2	0.17	<0.5	10	31	42	3.64
CC130557		0.48	0.011	0.2	2.03	13	<10	170	0.5	<2	0.16	<0.5	8	31	30	2.87
CC130558		0.41	0.007	<0.2	1.77	12	<10	180	0.5	<2	0.14	<0.5	7	25	36	3.32
CC130559		0.56	0.022	0.2	1.62	11	<10	140	0.6	<2	0.12	<0.5	8	25	59	3.29
CC130560		0.53	0.030	0.3	1.49	15	<10	330	1.0	<2	0.12	<0.5	5	24	95	3.65
CC130561		0.55	0.016	0.2	1.37	10	<10	200	<0.5	<2	0.14	<0.5	3	21	40	2.45
CC130562		0.17	0.012	0.2	0.78	6	<10	140	<0.5	<2	0.16	<0.5	3	13	22	1.54
CC130563		0.33	0.008	<0.2	1.09	9	<10	130	<0.5	2	0.19	<0.5	4	18	28	2.55
CC130564		0.52	0.084	1.5	1.98	11	<10	490	1.4	<2	0.45	<0.5	15	35	1215	3.15
CC130565		0.42	0.035	0.4	1.89	11	<10	240	0.5	<2	0.23	<0.5	8	28	310	2.88
CC130566		0.53	0.044	0.2	1.55	13	<10	280	1.4	<2	0.22	<0.5	34	19	1370	5.19



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC130553		10	<1	0.12	10	0.45	317	<1	0.01	16	460	10	0.02	<2	3
CC130554		10	1	0.12	20	0.46	412	1	0.02	29	530	9	0.04	<2	5
CC130555		10	<1	0.11	20	0.53	249	1	0.01	23	360	8	0.04	<2	4
CC130556		10	1	0.13	10	0.48	255	1	0.01	20	340	10	0.11	<2	3
CC130557		10	1	0.07	10	0.41	157	1	0.01	18	260	8	0.03	<2	3
CC130558		10	1	0.08	10	0.33	156	<1	0.01	16	380	9	0.06	<2	3
CC130559		<10	1	0.13	20	0.36	121	1	0.01	15	620	10	0.12	<2	2
CC130560		<10	<1	0.09	20	0.28	70	2	0.02	11	1150	10	0.13	<2	4
CC130561		<10	1	0.07	20	0.32	77	2	0.01	9	590	8	0.05	<2	2
CC130562		<10	<1	0.06	10	0.19	98	1	0.02	6	610	4	0.07	<2	1
CC130563		<10	<1	0.05	10	0.28	90	1	0.01	8	550	5	0.04	<2	2
CC130564		10	<1	0.08	50	0.55	272	50	0.01	23	610	9	0.03	<2	5
CC130565		10	1	0.09	10	0.49	207	19	0.01	25	430	10	0.02	<2	3
CC130566		<10	1	0.12	30	0.31	416	53	0.01	54	930	19	0.06	<2	5



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130553		<20	0.11	<10	<10	45	<10	60
CC130554		<20	0.08	<10	<10	54	<10	47
CC130555		<20	0.07	<10	<10	53	<10	49
CC130556		<20	0.06	<10	<10	55	<10	43
CC130557		<20	0.06	<10	<10	50	<10	38
CC130558		<20	0.05	<10	<10	46	<10	36
CC130559		<20	0.04	<10	<10	33	<10	32
CC130560		<20	0.03	<10	<10	33	<10	27
CC130561		<20	0.04	<10	<10	34	<10	27
CC130562		<20	0.04	<10	<10	25	<10	25
CC130563		<20	0.05	<10	<10	37	<10	30
CC130564		<20	0.04	<10	<10	44	<10	48
CC130565		<20	0.05	<10	<10	52	<10	51
CC130566		<20	0.02	<10	<10	34	<10	53



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130594		0.31	0.005	0.2	1.43	40	<10	120	<0.5	<2	0.26	<0.5	10	24	16	2.54
CC130595		0.54	0.006	<0.2	1.66	18	<10	110	<0.5	2	0.30	<0.5	8	31	13	2.59
CC130596		0.39	0.004	<0.2	1.67	17	<10	110	<0.5	<2	0.27	<0.5	9	30	12	2.67
CC130597		0.39	0.034	0.4	1.72	9	<10	350	0.8	<2	0.43	<0.5	7	20	74	2.33



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CERTIFICATE OF ANALYSIS WH11119969

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	MEICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC130594		<10	<1	0.13	10	0.40	436	1	0.01	14	550	11	0.03	<2	3
CC130595		10	<1	0.16	20	0.58	226	<1	0.01	16	560	14	0.01	<2	4
CC130596		10	<1	0.13	20	0.56	281	<1	0.01	16	540	13	0.02	<2	3
CC130597		<10	<1	0.08	20	0.26	123	1	0.03	14	620	6	0.05	<2	4



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130594		<20	0.09	<10	<10	42	<10	57
CC130595		<20	0.13	<10	<10	44	<10	62
CC130596		<20	0.12	<10	<10	48	<10	63
CC130597		<20	0.03	<10	<10	40	<10	24



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1



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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	1.0	2	0.01	2	1	1



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	MECP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2



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P.O. No.:

This report is for 134 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28-JUN- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- GP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	MECP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130911		0.15	NSS	0.3	0.84	6	<10	100	<0.5	<2	0.26	<0.5	4	16	34	1.93
CC130912		0.34	0.305	0.9	1.41	12	<10	170	<0.5	<2	0.65	<0.5	8	24	59	2.37
CC130913		0.19	0.010	0.4	1.55	17	<10	130	0.5	<2	0.70	<0.5	9	27	35	2.78
CC130914		0.20	0.004	0.2	1.43	14	<10	120	0.8	<2	0.74	<0.5	9	27	25	2.68



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC130911		<10	<1	0.06	10	0.22	93	<1	0.02	8	620	2	0.05	<2	1	25
CC130912		<10	<1	0.06	20	0.37	182	<1	0.02	14	540	6	0.02	<2	4	37
CC130913		10	<1	0.05	10	0.38	390	<1	0.01	18	450	8	0.01	<2	3	42
CC130914		<10	1	0.06	20	0.44	276	<1	0.02	20	580	11	0.02	<2	5	43



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130911		<20	0.04	<10	<10	32	<10	29
CC130912		<20	0.05	<10	<10	41	<10	42
CC130913		<20	0.05	<10	<10	56	<10	40
CC130914		<20	0.06	<10	<10	42	<10	48

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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME-CP41	ME- ICP41	ME- ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME-CP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC130995		0.40	0.024	0.8	2.18	9	<10	270	1.3	2	0.64	<0.5	11	32	209	3.09
CC130996		0.47	0.023	0.2	1.51	8	<10	300	0.5	<2	0.27	<0.5	7	27	136	2.89
CC130997		0.44	0.027	0.3	1.25	7	<10	370	0.5	<2	0.31	<0.5	7	20	155	2.63
CC130998		0.45	0.007	0.4	1.49	6	<10	320	0.7	<2	0.29	<0.5	8	26	242	2.24
CC130999		0.61	0.011	0.2	2.17	12	<10	260	0.5	<2	0.25	<0.5	11	30	97	2.74



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CERTIFICATE OF ANALYSIS WH11119990

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC130995		10	<1	0.14	40	0.50	217	3	0.02	24	730	12	0.07	<2	5	60
CC130996		10	<1	0.13	20	0.45	197	11	0.02	15	440	9	0.13	<2	3	40
CC130997		<10	<1	0.14	20	0.36	159	9	0.03	13	560	7	0.20	<2	3	40
CC130998		10	<1	0.06	10	0.50	219	7	0.01	15	280	8	0.01	<2	3	21
CC130999		10	<1	0.07	10	0.54	237	5	0.01	23	310	10	0.01	<2	3	22



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Project: Wolverine- DDD

CERTIFICATE OF ANALYSIS WH11119990

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130995		<20	0.04	<10	<10	44	<10	39
CC130996		<20	0.06	<10	<10	46	<10	34
CC130997		<20	0.05	<10	<10	33	<10	29
CC130998		<20	0.06	<10	<10	52	<10	40
CC130999		<20	0.08	<10	<10	59	<10	49



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CERTIFICATE OF ANALYSIS WH11119990

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.



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CERTIFICATE WH11119991

Project: Wolverine - DDD

P.O. No.:

This report is for 114 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28-JUN- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: Wolverine - DDD

CERTIFICATE OF ANALYSIS WH11119991

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME-CP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC138251		0.34	0.012	0.7	1.64	11	<10	390	<0.5	<2	0.25	<0.5	14	24	75	2.62
CC138252		0.40	0.051	0.5	2.87	5	<10	250	0.8	<2	0.28	<0.5	10	52	454	2.62
CC138253		0.47	0.009	0.4	2.57	13	<10	230	0.6	<2	0.23	<0.5	10	33	220	3.08
CC138254		0.35	0.003	0.3	2.14	10	<10	170	0.5	<2	0.19	<0.5	8	33	55	3.43
CC138255		0.41	0.004	<0.2	3.75	4	<10	200	0.9	<2	0.77	<0.5	9	57	305	4.64
CC138256		0.38	0.013	0.3	3.11	9	<10	160	0.6	2	0.22	<0.5	11	41	321	5.21
CC138257		0.40	0.025	0.4	1.60	3	<10	610	0.7	<2	0.86	<0.5	10	28	267	2.83
CC138279		0.34	0.018	0.2	1.70	7	<10	730	0.7	<2	0.75	<0.5	11	30	213	3.02
CC138280		0.28	0.008	<0.2	1.64	6	<10	530	0.7	<2	0.98	<0.5	8	26	199	2.63
CC138281		0.36	0.007	0.2	1.40	7	<10	910	0.8	<2	0.88	<0.5	7	21	162	2.36
CC138282		0.38	0.017	0.5	1.52	9	<10	730	0.7	<2	1.27	<0.5	7	25	120	2.45
CC138283		0.38	0.002	<0.2	2.13	14	<10	350	0.5	<2	0.40	<0.5	9	34	68	3.17
CC138284		0.41	0.005	0.6	2.07	10	<10	480	0.6	<2	0.37	<0.5	10	36	46	3.24
CC138285		0.36	0.005	<0.2	2.10	14	<10	370	0.5	<2	0.29	<0.5	9	36	87	3.43



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Project: Wolverine - DDD

CERTIFICATE OF ANALYSIS WH11119991

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC138251		<10	1	0.10	10	0.44	325	6	<0.01	11	360	5	<0.01	<2	3
CC138252		10	1	0.07	10	1.10	179	5	<0.01	31	250	5	<0.01	2	7
CC138253		10	1	0.10	10	0.71	207	1	<0.01	24	390	5	<0.01	<2	5
CC138254		10	<1	0.06	10	0.51	246	<1	<0.01	17	450	7	<0.01	<2	3
CC138255		10	<1	0.05	10	1.54	222	<1	<0.01	17	1170	7	<0.01	2	9
CC138256		10	1	0.05	10	1.03	235	<1	<0.01	23	330	13	<0.01	2	5
CC138257		<10	<1	0.08	30	0.68	440	8	<0.01	18	770	6	0.02	<2	7
CC138279		10	<1	0.11	30	0.76	540	5	0.02	15	900	8	0.03	<2	6
CC138280		<10	<1	0.12	20	0.60	293	4	0.02	16	790	7	0.02	2	5
CC138281		<10	<1	0.12	20	0.57	200	7	0.02	13	860	5	0.02	<2	5
CC138282		<10	<1	0.07	30	0.47	246	3	0.02	17	570	6	0.05	2	5
CC138283		10	<1	0.08	10	0.61	287	4	0.01	21	250	7	<0.01	<2	5
CC138284		10	<1	0.07	10	0.54	357	2	0.02	20	230	9	<0.01	2	4
CC138285		10	<1	0.08	10	0.60	288	3	0.01	22	230	7	0.01	<2	4



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Project: Wolverine - DDD

CERTIFICATE OF ANALYSIS WH11119991

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC138251		<20	0.05	<10	<10	63	<10	35
CC138252		<20	0.15	<10	<10	68	<10	34
CC138253		<20	0.11	<10	<10	69	<10	47
CC138254		<20	0.11	<10	<10	80	<10	44
CC138255		<20	0.36	<10	<10	125	<10	57
CC138256		<20	0.25	<10	<10	119	<10	56
CC138257		<20	0.07	<10	<10	52	<10	48
CC138279		<20	0.08	<10	<10	65	<10	48
CC138280		<20	0.06	<10	<10	51	<10	46
CC138281		<20	0.03	<10	<10	40	<10	30
CC138282		<20	0.04	<10	<10	43	<10	41
CC138283		<20	0.06	<10	<10	60	<10	47
CC138284		<20	0.08	<10	<10	73	<10	50
CC138285		<20	0.06	<10	<10	65	<10	49



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CERTIFICATE OF ANALYSIS WH11119991

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01



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Project: Wolverine - DDD

CERTIFICATE OF ANALYSIS WH11119991

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	MEICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1



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CERTIFICATE OF ANALYSIS WH11119991

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2



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Project: Wolverine - DDD

CERTIFICATE OF ANALYSIS WH11119991

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC138359		0.31	0.026	0.3	1.64	7	<10	180	0.5	<2	0.30	<0.5	10	28	76	2.61
CC138360		0.33	0.020	0.2	1.44	5	<10	150	<0.5	<2	0.25	<0.5	5	26	69	2.38
CC138361		0.39	0.033	0.2	1.70	7	<10	220	0.5	<2	0.30	<0.5	7	29	109	2.85
CC138362		0.33	0.044	0.3	2.49	6	<10	200	0.9	<2	0.40	<0.5	10	33	225	3.15
CC138363		0.38	0.063	0.2	1.46	7	<10	210	0.5	<2	0.26	<0.5	9	25	151	3.11
CC138364		0.47	0.026	<0.2	1.55	11	<10	250	0.5	<2	0.17	<0.5	5	24	90	3.34



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CERTIFICATE OF ANALYSIS WH11119991

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC138359		10	<1	0.08	10	0.47	294	3	0.01	19	660	9	0.01	<2	3
CC138360		10	<1	0.07	10	0.41	117	3	0.01	13	670	8	0.01	<2	3
CC138361		10	<1	0.08	20	0.46	137	4	0.01	16	700	9	0.06	<2	4
CC138362		10	<1	0.07	20	0.49	203	7	0.02	23	710	12	0.04	<2	5
CC138363		<10	<1	0.13	10	0.47	179	8	0.01	19	730	8	0.12	<2	3
CC138364		<10	<1	0.10	20	0.33	103	6	0.01	14	740	9	0.07	<2	2



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CERTIFICATE OF ANALYSIS WH11119991

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC138359		<20	0.06	<10	<10	45	<10	53
CC138360		<20	0.06	<10	<10	40	<10	38
CC138361		<20	0.06	<10	<10	42	<10	41
CC138362		<20	0.07	<10	<10	45	<10	50
CC138363		<20	0.07	<10	<10	38	<10	43
CC138364		<20	0.03	<10	<10	39	<10	33



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CERTIFICATE WH11161740

Project: Wolverine- DDD/Shamrock

P.O. No.:

This report is for 51 Rock samples submitted to our lab in Whitehorse, YT, Canada on 16- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Project: Wolverine- DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11161740

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K975440		1.30	0.021	<0.2	0.91	<2	<10	320	<0.5	3	0.52	<0.5	6	24	113	2.69
K975441		1.53	0.008	0.2	0.80	3	<10	160	<0.5	2	0.50	<0.5	6	32	101	3.27
K975442		1.67	0.010	0.2	0.82	2	<10	250	<0.5	2	0.47	<0.5	5	24	112	2.76
K975443		1.48	0.020	0.2	0.75	6	<10	410	<0.5	2	0.66	<0.5	4	21	142	3.04
K975444		1.65	0.027	0.5	0.83	6	<10	390	0.5	3	0.58	<0.5	6	20	235	2.76
K975445		1.54	0.008	0.2	0.83	2	<10	500	<0.5	2	0.54	<0.5	6	21	152	2.44
K975446		1.73	0.017	0.3	0.70	4	<10	810	0.5	2	1.16	<0.5	5	19	113	2.69
K975447		1.17	0.015	0.4	0.79	3	<10	1080	0.5	<2	0.59	<0.5	6	14	171	2.41
K975448		0.91	0.021	0.3	0.94	3	<10	690	<0.5	3	0.58	<0.5	7	23	120	2.52
K975449		1.69	0.013	0.2	0.87	4	<10	830	0.5	2	0.63	<0.5	6	20	124	2.62
K975450		1.60	0.013	0.2	0.72	2	<10	1030	<0.5	<2	0.66	<0.5	6	21	126	2.14
K974601		1.51	0.012	0.3	0.79	2	<10	680	<0.5	2	0.81	<0.5	6	22	116	2.65
K974602		1.81	0.019	0.3	0.78	2	<10	1060	0.5	3	0.51	<0.5	8	17	287	3.07
K974603		1.96	0.006	<0.2	0.63	8	<10	640	0.5	2	0.62	<0.5	5	16	122	3.05
K974604		1.66	0.088	0.2	0.51	9	<10	770	<0.5	3	0.49	<0.5	5	11	202	2.86
K974605		1.90	0.008	0.2	0.66	5	<10	720	<0.5	3	0.40	<0.5	4	16	106	2.98
K974606		1.96	0.013	0.2	0.85	4	<10	1130	0.5	2	0.36	<0.5	6	16	207	3.80
K974607		1.81	0.009	0.2	0.68	2	<10	740	<0.5	2	0.33	<0.5	5	18	161	3.36
K974608		2.13	0.012	0.2	0.76	<2	<10	890	0.5	2	0.36	<0.5	5	17	190	3.15
K974609		1.78	0.014	0.2	0.98	6	<10	230	0.5	2	0.25	<0.5	6	17	194	3.76
K974610		1.78	0.010	<0.2	0.88	4	<10	310	0.5	2	0.32	<0.5	5	21	142	2.98
K974611		1.95	0.007	<0.2	0.86	5	<10	350	<0.5	<2	0.25	<0.5	8	17	126	2.75
K974612		2.05	0.012	0.2	0.89	<2	<10	380	0.5	<2	0.29	<0.5	8	15	157	3.39
K974613		2.00	0.011	0.2	0.93	<2	<10	300	0.5	<2	0.27	<0.5	8	17	211	3.85
K974614		1.89	0.012	<0.2	0.88	<2	<10	1110	<0.5	<2	0.25	<0.5	8	16	221	4.81
K974615		1.68	0.167	0.2	1.12	<2	<10	410	0.5	2	0.36	<0.5	10	21	212	3.98
K974616		2.00	0.006	<0.2	1.27	<2	<10	470	<0.5	<2	0.44	<0.5	9	24	163	2.79
K974617		1.73	0.014	<0.2	1.27	<2	<10	330	<0.5	<2	0.49	<0.5	9	25	239	3.32
K974618		1.98	<0.005	<0.2	1.02	<2	<10	330	<0.5	<2	0.47	<0.5	7	22	116	2.96
K974619		2.00	0.011	<0.2	0.97	<2	<10	130	<0.5	<2	0.38	<0.5	8	20	202	3.06
K974620		2.25	0.008	<0.2	1.04	<2	<10	110	<0.5	2	0.39	<0.5	8	22	204	3.57
K974621		2.15	0.011	<0.2	0.96	<2	<10	130	<0.5	<2	0.43	<0.5	7	21	176	3.27
K974622		1.47	0.019	0.2	1.00	<2	<10	140	<0.5	<2	0.50	<0.5	7	21	174	3.24
K974623		1.81	0.011	<0.2	1.14	<2	<10	150	0.5	<2	0.54	<0.5	7	22	200	3.66
K974624		1.71	0.011	<0.2	1.21	<2	<10	770	0.5	<2	0.61	<0.5	8	21	190	3.43
K974625		1.79	0.013	<0.2	0.93	<2	<10	130	<0.5	<2	0.46	<0.5	8	21	198	6.27
K974626		2.28	0.012	0.2	1.13	<2	<10	100	<0.5	2	0.55	<0.5	10	23	296	4.93
K974627		1.80	0.015	<0.2	1.36	<2	<10	110	0.5	<2	0.60	<0.5	12	27	483	6.31
K974628		1.52	0.006	<0.2	1.40	<2	<10	120	0.7	<2	0.73	<0.5	10	28	127	2.64
K974629		1.56	0.007	0.2	1.51	<2	<10	110	0.8	<2	0.80	<0.5	10	26	173	2.56



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Project: Wolverine- DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11161740

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
K975440		<10	<1	0.17	20	0.71	270	4	0.06	7	910	8	0.02	<2	4	37
K975441		<10	<1	0.12	20	0.66	283	4	0.06	6	980	6	0.01	<2	4	32
K975442		<10	<1	0.15	20	0.62	240	11	0.06	7	940	6	0.02	<2	4	33
K975443		<10	1	0.13	20	0.47	291	9	0.05	5	860	8	0.05	<2	4	41
K975444		<10	<1	0.15	20	0.53	408	12	0.04	7	960	9	0.07	<2	5	34
K975445		<10	<1	0.14	20	0.51	268	11	0.05	7	920	8	0.10	<2	4	42
K975446		<10	1	0.13	20	0.53	498	11	0.05	4	820	7	0.08	<2	4	57
K975447		<10	<1	0.20	20	0.39	350	34	0.05	5	850	8	0.08	<2	4	61
K975448		<10	<1	0.19	20	0.69	338	13	0.05	8	1000	8	0.08	<2	5	50
K975449		<10	<1	0.19	20	0.50	360	20	0.05	7	960	10	0.06	<2	5	51
K975450		<10	<1	0.19	20	0.48	351	14	0.05	6	890	8	0.06	<2	4	55
K974601		<10	<1	0.17	20	0.49	506	9	0.06	6	910	10	0.03	<2	5	51
K974602		<10	<1	0.21	20	0.38	456	18	0.04	6	850	10	0.06	<2	5	50
K974603		<10	<1	0.16	20	0.27	466	14	0.04	5	840	8	0.07	<2	5	37
K974604		<10	1	0.18	10	0.14	327	17	0.03	4	560	5	0.06	<2	3	32
K974605		<10	<1	0.16	20	0.35	284	11	0.05	6	740	5	0.07	<2	4	37
K974606		<10	<1	0.21	20	0.39	283	11	0.05	7	750	5	0.05	<2	4	45
K974607		<10	<1	0.19	10	0.39	236	9	0.05	6	690	5	0.04	<2	4	36
K974608		<10	<1	0.22	20	0.44	260	10	0.04	10	710	7	0.05	<2	4	38
K974609		10	1	0.20	10	0.53	229	7	0.04	9	610	9	0.01	<2	4	22
K974610		<10	<1	0.20	20	0.54	213	4	0.05	5	750	5	0.02	<2	4	26
K974611		<10	<1	0.16	10	0.40	227	6	0.05	8	590	5	0.02	<2	4	25
K974612		<10	<1	0.20	20	0.40	260	7	0.05	8	690	6	0.02	<2	4	27
K974613		<10	<1	0.24	10	0.51	239	4	0.05	9	730	5	0.02	<2	5	25
K974614		10	<1	0.20	10	0.51	215	4	0.05	8	650	4	0.04	<2	4	27
K974615		10	<1	0.24	10	0.73	218	6	0.06	9	780	6	0.02	2	5	28
K974616		10	<1	0.29	10	0.86	180	4	0.07	9	890	5	0.02	2	6	32
K974617		10	<1	0.21	10	0.90	158	3	0.07	9	840	6	0.01	<2	6	31
K974618		10	<1	0.16	10	0.64	154	3	0.07	7	870	5	0.02	<2	4	32
K974619		10	<1	0.15	10	0.64	137	5	0.07	7	770	5	0.01	<2	4	27
K974620		10	<1	0.14	10	0.69	173	3	0.06	7	850	5	0.01	<2	5	24
K974621		10	<1	0.15	10	0.62	158	3	0.07	7	810	5	0.01	<2	4	28
K974622		10	<1	0.15	10	0.57	150	3	0.08	8	810	6	0.01	2	3	29
K974623		10	<1	0.14	10	0.61	135	6	0.08	8	830	7	0.01	<2	4	30
K974624		10	<1	0.13	10	0.63	143	4	0.06	12	1000	8	0.02	<2	4	36
K974625		10	<1	0.11	10	0.49	154	7	0.05	9	930	5	0.01	<2	3	23
K974626		10	<1	0.11	20	0.60	181	7	0.06	10	1610	5	0.01	2	4	25
K974627		10	<1	0.11	20	0.66	194	8	0.06	13	1570	5	0.01	<2	5	29
K974628		10	<1	0.09	10	0.65	200	4	0.07	10	950	6	0.01	<2	3	32
K974629		10	<1	0.07	10	0.68	151	4	0.06	9	930	5	0.01	2	4	34



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Project: Wolverine- DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11161740

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
K975440		<20	0.10	<10	<10	65	<10	42
K975441		<20	0.11	<10	<10	73	<10	42
K975442		<20	0.09	<10	<10	67	<10	37
K975443		<20	0.08	<10	<10	64	<10	37
K975444		<20	0.05	<10	<10	51	<10	40
K975445		<20	0.06	<10	<10	51	<10	41
K975446		<20	0.04	<10	<10	46	<10	37
K975447		<20	0.02	<10	<10	35	<10	36
K975448		<20	0.03	<10	<10	53	<10	44
K975449		<20	0.03	<10	<10	47	<10	44
K975450		<20	0.05	<10	<10	46	<10	40
K974601		<20	0.05	<10	<10	57	<10	55
K974602		<20	0.03	<10	<10	48	<10	47
K974603		<20	0.02	<10	<10	45	<10	44
K974604		<20	0.01	<10	<10	27	<10	28
K974605		<20	0.03	<10	<10	47	<10	32
K974606		<20	0.02	<10	<10	61	<10	33
K974607		<20	0.03	<10	<10	56	<10	29
K974608		<20	0.04	<10	<10	53	<10	30
K974609		<20	0.03	<10	<10	60	<10	35
K974610		<20	0.06	<10	<10	59	<10	31
K974611		<20	0.04	<10	<10	47	<10	27
K974612		<20	0.03	<10	<10	51	<10	31
K974613		<20	0.05	<10	<10	63	<10	30
K974614		<20	0.04	<10	<10	72	<10	29
K974615		<20	0.10	<10	<10	75	<10	30
K974616		<20	0.15	<10	<10	69	<10	30
K974617		<20	0.17	<10	<10	82	<10	28
K974618		<20	0.15	<10	<10	66	<10	26
K974619		<20	0.13	<10	<10	74	<10	24
K974620		<20	0.14	<10	<10	78	<10	29
K974621		<20	0.15	<10	<10	77	<10	27
K974622		<20	0.15	<10	<10	72	<10	27
K974623		<20	0.16	<10	<10	82	<10	27
K974624		<20	0.15	<10	<10	72	<10	31
K974625		<20	0.13	<10	<10	159	<10	27
K974626		<20	0.11	<10	<10	108	<10	27
K974627		<20	0.13	<10	<10	158	<10	28
K974628		<20	0.17	<10	<10	68	<10	31
K974629		<20	0.19	<10	<10	65	<10	25



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CERTIFICATE OF ANALYSIS WH11161740

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K974630		1.56	0.013	<0.2	1.51	<2	<10	110	0.8	<2	0.80	<0.5	10	25	174	2.51
K974631		1.75	0.006	0.2	1.42	<2	<10	170	0.5	<2	0.59	<0.5	9	28	114	2.55
K974632		1.91	<0.005	<0.2	1.18	<2	<10	160	<0.5	<2	0.71	<0.5	8	28	40	2.35
K974633		1.54	0.007	0.2	1.19	<2	<10	130	0.5	<2	0.64	<0.5	8	23	87	2.22
K974634		1.60	<0.005	<0.2	0.99	<2	<10	120	<0.5	<2	0.59	<0.5	7	24	68	2.31
K974635		1.59	0.024	0.2	1.06	<2	<10	140	<0.5	<2	0.53	<0.5	7	18	175	3.72
K974636		1.34	0.029	0.2	1.08	<2	<10	90	0.5	2	0.50	<0.5	8	20	179	2.22
K974637		1.55	0.031	0.2	1.20	<2	<10	140	0.5	<2	0.59	<0.5	8	27	197	2.50
K974638		1.63	0.100	0.3	1.15	<2	<10	150	0.5	<2	0.55	<0.5	7	19	293	1.86
K974639		1.52	0.020	<0.2	1.07	<2	<10	180	<0.5	<2	0.57	<0.5	7	17	211	2.25
K974640		1.54	0.030	0.2	1.10	<2	<10	180	<0.5	<2	0.54	<0.5	7	17	242	2.20



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CERTIFICATE OF ANALYSIS WH11161740

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
K974630		10	<1	0.08	10	0.68	149	4	0.07	9	910	6	0.01	<2	4	35
K974631		10	<1	0.11	10	0.60	199	3	0.07	10	930	5	0.01	<2	4	35
K974632		<10	1	0.14	20	0.63	254	3	0.10	9	1010	6	0.01	2	3	42
K974633		10	<1	0.12	20	0.67	236	3	0.09	9	960	7	0.01	2	4	41
K974634		<10	<1	0.12	10	0.53	203	3	0.08	8	970	5	0.01	<2	3	35
K974635		10	<1	0.17	10	0.63	172	3	0.07	7	880	4	0.01	2	4	36
K974636		10	<1	0.15	20	0.63	122	3	0.07	7	830	5	0.01	<2	5	33
K974637		10	<1	0.19	20	0.72	162	2	0.08	8	860	5	0.01	<2	5	38
K974638		<10	<1	0.21	10	0.72	129	2	0.07	7	810	4	0.01	<2	5	32
K974639		<10	<1	0.19	20	0.61	142	2	0.08	6	880	4	0.01	<2	4	36
K974640		<10	<1	0.21	20	0.67	155	3	0.08	7	870	4	0.01	<2	4	34



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CERTIFICATE OF ANALYSIS WH11161740

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
K974630		<20	0.19	<10	<10	65	<10	25
K974631		<20	0.14	<10	<10	64	<10	27
K974632		<20	0.17	<10	<10	67	<10	37
K974633		<20	0.15	<10	<10	61	<10	34
K974634		<20	0.14	<10	<10	68	<10	31
K974635		<20	0.16	<10	<10	91	<10	27
K974636		<20	0.14	<10	<10	60	<10	20
K974637		<20	0.16	<10	<10	67	<10	25
K974638		<20	0.17	<10	<10	64	<10	22
K974639		<20	0.17	<10	<10	64	<10	24
K974640		<20	0.15	<10	<10	65	<10	25



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Project: Wolverine DDD/Shamrock

P.O. No.:

This report is for 51 Rock samples submitted to our lab in Whitehorse, YT, Canada on 25- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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 1016- 510 W HASTINGS ST
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Project: Wolverine DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11165479

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K974664		0.69	0.046	<0.2	1.55	2	<10	720	0.6	<2	0.49	<0.5	7	22	285	1.94
K974665		0.56	0.055	0.4	1.17	4	<10	630	0.6	<2	0.32	<0.5	9	18	485	1.93
K974666		0.57	0.029	<0.2	1.01	<2	<10	750	0.6	<2	0.35	<0.5	5	15	378	1.87
K974667		0.25	0.021	<0.2	0.96	<2	<10	270	0.5	<2	0.51	<0.5	6	11	275	1.20
K974668		0.42	0.029	<0.2	1.45	2	<10	320	0.6	<2	0.47	<0.5	7	18	291	1.77
K974669		0.37	0.035	<0.2	1.42	<2	<10	310	0.5	<2	0.47	<0.5	7	19	292	1.77
K974670		0.60	0.019	<0.2	0.99	<2	<10	540	<0.5	<2	0.29	<0.5	5	13	213	1.38
K974671		0.53	0.008	<0.2	1.58	<2	<10	410	0.5	<2	0.70	<0.5	10	29	209	2.86
K974672		0.40	0.014	<0.2	1.45	2	<10	240	0.5	<2	0.57	<0.5	9	31	130	2.95
K974673		0.13	0.005	<0.2	1.46	2	<10	300	0.6	<2	0.61	<0.5	10	27	141	2.72
K974674		0.31	<0.005	<0.2	1.45	2	<10	300	0.6	<2	0.61	<0.5	9	26	137	2.65
K974675		0.26	0.006	<0.2	1.23	3	<10	750	0.7	<2	0.50	<0.5	9	25	100	2.52
K974676		0.25	0.009	<0.2	1.34	<2	<10	200	0.5	<2	0.51	<0.5	8	24	129	2.35
K974677		0.29	0.030	<0.2	1.21	3	<10	370	0.5	<2	0.56	<0.5	6	18	109	2.06
K974678		0.16	0.005	<0.2	0.99	<2	<10	130	0.5	<2	0.46	<0.5	4	14	76	1.27
K974679		0.45	0.012	<0.2	1.27	<2	<10	400	0.6	<2	0.69	<0.5	7	17	94	2.05
K974680		0.27	0.011	<0.2	0.99	<2	<10	80	0.5	<2	0.54	<0.5	4	13	97	1.44
K974681		0.36	0.023	<0.2	1.05	<2	<10	120	0.5	<2	0.57	<0.5	5	16	97	1.86
K974682		0.39	0.012	0.2	1.06	2	<10	110	0.5	<2	0.56	<0.5	5	16	114	1.48
K974683		0.35	0.010	0.3	1.04	2	<10	110	0.5	<2	0.54	<0.5	5	16	106	2.03
K974684		0.46	0.015	0.2	0.96	2	<10	150	0.5	<2	0.46	<0.5	5	13	146	1.66
K974685		0.44	0.024	0.3	0.99	<2	<10	110	<0.5	<2	0.41	<0.5	5	14	171	1.73
K974686		0.36	0.015	0.3	1.81	2	<10	100	0.6	<2	0.42	<0.5	7	20	199	1.59
K974687		0.25	0.024	0.2	1.48	<2	<10	70	0.6	<2	0.38	<0.5	6	11	156	1.30
K974688		0.32	0.026	0.3	1.30	<2	<10	70	0.8	<2	0.31	<0.5	3	16	198	1.74
K974689		0.20	0.026	0.3	1.10	2	<10	110	0.6	<2	0.19	<0.5	4	15	333	5.61
K974690		0.41	0.026	0.3	1.31	2	<10	90	0.7	<2	0.21	<0.5	8	25	221	1.93
K974691		0.58	0.031	0.3	1.58	<2	<10	110	0.8	<2	0.20	<0.5	8	36	301	1.98
K974692		0.58	0.017	0.3	1.50	3	<10	100	0.8	<2	0.22	<0.5	6	29	285	1.83
K974693		0.45	0.040	0.3	1.23	2	<10	70	0.8	<2	0.25	<0.5	4	23	261	1.86
K974694		0.51	0.041	0.3	1.19	2	<10	70	0.7	<2	0.17	<0.5	5	25	281	1.64
K974695		0.56	0.083	0.8	1.81	3	<10	160	0.8	<2	0.39	<0.5	10	35	410	3.99
K974696		0.65	0.037	0.4	1.38	<2	<10	90	0.9	<2	0.44	<0.5	8	20	322	1.76
K974697		0.53	0.052	0.4	1.33	3	<10	110	0.8	<2	0.40	<0.5	8	22	459	1.81
K974698		0.34	0.023	<0.2	1.16	<2	<10	90	0.8	<2	0.35	<0.5	9	15	325	1.59
K974699		0.53	0.060	0.2	1.15	2	<10	270	0.7	<2	0.41	<0.5	7	20	421	3.39
K974700		0.47	0.025	0.2	1.10	2	<10	310	0.6	<2	0.26	<0.5	8	20	292	1.85
K974701		0.51	0.024	<0.2	1.22	<2	<10	320	0.6	<2	0.38	<0.5	11	17	452	1.96
K974702		0.57	0.032	0.2	1.07	3	<10	700	0.7	<2	0.23	<0.5	10	22	559	1.97
K974703		0.46	0.054	0.3	1.40	<2	<10	400	0.6	<2	0.22	<0.5	9	34	296	1.93



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CERTIFICATE OF ANALYSIS WH11165479

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
K974664		10	<1	0.29	40	0.83	184	18	0.07	14	710	5	0.01	<2	5	106
K974665		<10	<1	0.44	20	0.64	153	45	0.05	8	810	6	0.05	<2	6	44
K974666		<10	<1	0.28	20	0.45	162	30	0.05	9	730	6	0.03	<2	4	61
K974667		<10	<1	0.28	20	0.28	147	29	0.05	6	1690	7	0.01	<2	3	25
K974668		<10	<1	0.26	20	0.77	178	16	0.07	11	740	5	0.01	<2	5	42
K974669		<10	<1	0.25	20	0.77	180	17	0.06	11	750	5	0.01	<2	5	39
K974670		<10	<1	0.18	20	0.63	142	93	0.05	6	590	4	0.01	<2	3	33
K974671		10	<1	0.16	20	1.03	276	8	0.10	10	1200	6	0.01	<2	5	56
K974672		10	<1	0.15	20	0.99	290	7	0.07	8	1030	5	<0.01	<2	5	36
K974673		10	<1	0.20	20	0.79	311	13	0.09	10	1020	4	<0.01	<2	5	50
K974674		10	<1	0.21	20	0.77	300	12	0.10	10	1010	5	0.01	<2	5	51
K974675		10	<1	0.20	20	0.62	292	88	0.05	7	970	5	0.02	<2	5	59
K974676		10	<1	0.18	20	0.93	276	5	0.07	7	990	5	<0.01	<2	5	34
K974677		10	<1	0.16	20	0.81	222	4	0.09	6	800	8	0.01	<2	5	38
K974678		<10	<1	0.19	10	0.53	163	2	0.10	4	820	7	<0.01	<2	4	32
K974679		10	<1	0.15	20	0.77	272	3	0.07	6	840	6	0.01	<2	6	48
K974680		<10	<1	0.12	10	0.64	158	1	0.08	3	830	5	<0.01	<2	4	29
K974681		<10	<1	0.13	10	0.65	208	1	0.07	4	850	6	<0.01	<2	4	36
K974682		<10	<1	0.14	20	0.66	171	1	0.07	4	770	6	<0.01	<2	4	30
K974683		10	<1	0.12	10	0.61	193	1	0.08	6	810	6	<0.01	<2	4	33
K974684		10	<1	0.17	20	0.59	171	1	0.09	3	810	4	0.01	<2	4	33
K974685		<10	<1	0.17	20	0.66	162	1	0.08	4	720	5	0.01	<2	4	30
K974686		10	<1	0.20	10	0.64	84	5	0.09	10	560	7	0.04	<2	4	36
K974687		10	<1	0.22	10	0.54	87	9	0.08	7	550	6	0.05	<2	3	33
K974688		10	<1	0.25	20	0.47	71	64	0.06	6	450	8	0.02	<2	3	29
K974689		10	<1	0.17	20	0.45	114	53	0.07	3	530	4	0.06	<2	3	44
K974690		10	<1	0.34	20	0.57	125	28	0.06	11	410	7	0.03	2	4	21
K974691		10	<1	0.50	20	0.76	147	39	0.05	16	350	5	0.03	<2	7	19
K974692		10	<1	0.39	20	0.69	125	44	0.05	13	460	6	0.03	<2	6	20
K974693		10	<1	0.26	20	0.48	96	42	0.06	8	450	7	0.04	<2	4	21
K974694		10	<1	0.26	20	0.49	120	51	0.06	10	240	6	0.02	2	4	15
K974695		10	<1	0.36	20	0.68	136	27	0.10	18	390	5	0.04	<2	6	31
K974696		10	<1	0.18	20	0.62	146	22	0.07	9	530	7	0.02	2	4	26
K974697		10	<1	0.17	20	0.48	122	44	0.06	13	370	6	0.04	<2	3	25
K974698		<10	<1	0.19	20	0.72	148	27	0.06	10	670	6	<0.01	<2	4	21
K974699		10	<1	0.18	20	0.60	159	37	0.05	13	620	7	0.02	<2	5	22
K974700		<10	<1	0.33	20	0.52	163	21	0.05	12	530	7	0.02	<2	5	23
K974701		<10	<1	0.28	20	0.57	239	41	0.07	10	800	6	0.01	<2	4	31
K974702		<10	<1	0.29	20	0.57	156	36	0.05	18	550	6	0.07	<2	5	40
K974703		10	<1	0.54	30	0.88	172	25	0.05	18	600	5	0.06	<2	7	18



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
K974664		<20	0.10	<10	<10	43	<10	27
K974665		<20	0.06	<10	<10	45	<10	25
K974666		<20	0.04	<10	<10	37	<10	23
K974667		<20	0.02	<10	<10	23	<10	16
K974668		<20	0.08	<10	<10	43	<10	28
K974669		<20	0.08	<10	<10	44	<10	28
K974670		<20	0.04	<10	<10	37	<10	19
K974671		<20	0.13	<10	<10	68	<10	34
K974672		<20	0.14	<10	<10	73	<10	35
K974673		<20	0.11	<10	<10	59	<10	35
K974674		<20	0.11	<10	<10	59	<10	35
K974675		<20	0.09	<10	<10	57	<10	31
K974676		<20	0.11	<10	<10	62	<10	36
K974677		<20	0.15	<10	<10	63	<10	32
K974678		<20	0.11	<10	<10	43	<10	21
K974679		<20	0.15	<10	<10	59	<10	34
K974680		<20	0.13	<10	<10	49	<10	25
K974681		<20	0.15	<10	<10	53	<10	31
K974682		<20	0.14	<10	<10	49	<10	25
K974683		<20	0.13	<10	<10	55	<10	32
K974684		<20	0.12	<10	<10	49	<10	26
K974685		<20	0.12	<10	<10	50	<10	26
K974686		<20	0.11	<10	<10	36	<10	23
K974687		<20	0.06	<10	<10	27	<10	20
K974688		<20	0.07	<10	<10	29	<10	18
K974689		<20	0.10	<10	<10	40	<10	17
K974690		<20	0.08	<10	<10	34	<10	19
K974691		<20	0.12	<10	<10	50	<10	27
K974692		<20	0.10	<10	<10	41	<10	22
K974693		<20	0.07	<10	<10	34	<10	18
K974694		<20	0.08	<10	<10	32	<10	19
K974695		<20	0.09	<10	<10	51	<10	30
K974696		<20	0.08	<10	<10	38	<10	21
K974697		<20	0.06	<10	<10	30	<10	20
K974698		<20	0.10	<10	<10	47	<10	25
K974699		<20	0.09	<10	<10	65	<10	28
K974700		<20	0.06	<10	<10	35	<10	22
K974701		<20	0.06	<10	<10	38	<10	27
K974702		<20	0.05	<10	<10	38	<10	25
K974703		<20	0.08	<10	<10	41	<10	27



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
K974704		0.40	0.017	0.2	1.17	2	<10	560	0.7	<2	0.36	<0.5	9	21	451	1.77
K974705		0.56	0.021	<0.2	1.09	<2	<10	250	0.6	<2	0.37	<0.5	7	17	329	2.05
K974706		0.61	0.019	<0.2	0.84	<2	<10	220	0.6	<2	0.38	<0.5	6	17	251	2.22
K974707		0.62	0.025	0.2	1.11	2	<10	180	0.6	<2	0.32	<0.5	7	21	323	2.01
K974708		0.58	0.022	<0.2	0.98	3	<10	180	0.5	<2	0.22	<0.5	7	15	429	2.08
K974709		0.56	0.019	<0.2	0.80	<2	<10	150	<0.5	<2	0.29	<0.5	5	12	198	2.03
K974710		0.43	0.025	0.3	1.18	4	<10	220	0.7	<2	0.12	<0.5	6	12	274	2.30
K974711		0.62	0.073	0.6	1.95	17	<10	1330	1.5	<2	0.17	<0.5	9	23	1025	8.10
K974712		0.58	0.055	0.5	1.36	3	<10	420	0.8	<2	0.12	<0.5	6	30	297	2.98
K974713		0.69	0.045	0.3	1.01	8	<10	110	0.9	<2	0.13	<0.5	10	20	442	2.59
K974714		0.73	0.031	0.4	0.73	4	<10	280	0.8	<2	0.11	<0.5	7	14	393	2.08



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
K974704		<10	<1	0.27	30	0.58	209	79	0.07	13	570	6	0.02	<2	5	66
K974705		<10	<1	0.22	20	0.66	178	22	0.06	9	730	5	0.02	<2	4	24
K974706		<10	<1	0.16	10	0.47	154	14	0.05	8	660	5	0.03	<2	3	42
K974707		10	<1	0.26	20	0.72	166	20	0.06	9	700	6	0.02	<2	5	21
K974708		<10	<1	0.23	20	0.49	146	30	0.05	10	570	6	0.02	<2	4	27
K974709		<10	<1	0.19	10	0.45	130	18	0.06	5	620	4	0.01	<2	3	21
K974710		<10	<1	0.24	30	0.35	139	48	0.04	7	430	6	0.10	<2	3	29
K974711		10	<1	0.22	20	0.80	125	63	0.05	21	710	9	0.09	2	4	36
K974712		10	<1	0.41	30	0.59	124	69	0.05	16	340	8	0.04	<2	5	24
K974713		<10	<1	0.28	30	0.39	163	78	0.03	14	370	9	0.03	<2	4	16
K974714		<10	<1	0.21	20	0.22	140	68	0.04	11	330	8	0.04	<2	2	16



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
K974704		<20	0.06	<10	<10	41	<10	22
K974705		<20	0.09	<10	<10	45	<10	25
K974706		<20	0.09	<10	<10	46	<10	24
K974707		<20	0.08	<10	<10	50	<10	23
K974708		<20	0.03	<10	<10	39	<10	23
K974709		<20	0.06	<10	<10	39	<10	21
K974710		<20	0.04	<10	<10	28	<10	13
K974711		<20	0.02	<10	<10	34	<10	29
K974712		<20	0.04	<10	<10	32	<10	19
K974713		<20	0.04	<10	<10	23	<10	20
K974714		<20	0.01	<10	<10	13	<10	16



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Account: F

CERTIFICATE WH11169041

Project: Wolverine - DDD/Shamrock

P.O. No.:

This report is for 230 Soil samples submitted to our lab in Whitehorse, YT, Canada on 24- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Project: Wolverine - DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01



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CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1



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Project: Wolverine - DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2



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CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
DD021772		0.38	0.006	<0.2	1.57	6	<10	140	<0.5	<2	0.45	<0.5	9	29	29	2.52
DD021773		0.44	0.019	<0.2	1.96	7	<10	180	0.6	2	0.56	<0.5	12	41	71	3.35
DD021774		0.26	0.063	0.2	1.84	12	<10	180	<0.5	<2	0.38	<0.5	10	38	96	4.31
DD021775		0.32	0.087	0.4	1.84	13	<10	240	0.8	<2	0.65	<0.5	15	41	110	3.68
DD021776		0.24	0.049	0.3	1.74	16	<10	190	0.6	<2	0.53	<0.5	11	34	79	3.28
DD021777		0.34	0.027	<0.2	1.46	10	<10	190	0.5	<2	0.43	<0.5	8	28	57	2.76
DD021778		0.32	0.016	0.4	2.23	11	<10	330	0.7	<2	0.57	<0.5	12	32	70	3.29
DD021779		0.28	0.022	<0.2	1.32	6	<10	180	<0.5	<2	0.38	<0.5	7	26	65	2.74
DD021780		0.34	0.126	0.2	1.55	9	<10	170	0.5	<2	0.39	<0.5	8	29	62	2.88
DD021781		0.36	0.044	0.4	1.71	12	<10	300	0.6	<2	0.40	<0.5	8	31	103	3.51
DD021782		0.42	0.012	0.2	1.74	9	<10	180	0.5	<2	0.39	<0.5	11	30	55	2.85
DD021783		0.38	0.020	0.2	1.73	11	<10	200	0.5	<2	0.44	<0.5	12	31	52	2.70
DD021784		0.32	0.037	0.3	1.58	10	<10	170	0.5	<2	0.50	<0.5	11	31	56	3.12
DD021785		0.34	0.064	0.3	2.08	14	<10	660	0.7	<2	0.68	<0.5	15	40	83	4.04
DD021786		0.30	0.056	0.3	1.54	10	<10	140	<0.5	<2	0.38	<0.5	10	28	64	2.82
DD021787		0.28	0.018	<0.2	1.64	10	<10	150	<0.5	<2	0.40	<0.5	11	30	49	2.71
DD021788		0.32	0.051	<0.2	1.51	11	<10	140	<0.5	<2	0.48	<0.5	10	28	29	2.51
DD021789		0.26	0.008	<0.2	1.79	17	<10	170	0.6	<2	0.66	<0.5	14	33	38	3.31
DD021790		0.34	0.008	0.2	1.28	28	<10	140	0.5	<2	0.69	<0.5	11	23	24	2.78
DD021791		0.34	0.008	0.3	1.59	12	<10	180	0.6	<2	0.99	<0.5	13	28	43	2.67
DD021792		0.26	0.027	0.4	1.72	10	<10	190	<0.5	<2	0.45	<0.5	10	27	83	2.65
DD021793		0.40	0.083	0.4	1.74	12	<10	240	<0.5	2	0.41	<0.5	9	33	94	3.46
DD021794		0.36	0.047	0.3	1.88	11	<10	310	0.5	<2	0.60	<0.5	11	35	63	3.33
DD021795		0.38	0.035	0.2	1.59	13	<10	160	0.6	<2	0.46	<0.5	12	33	59	3.01
DD021796		0.28	0.018	0.4	1.85	12	<10	280	0.5	<2	0.47	<0.5	13	31	47	3.12
DD021797		0.38	0.019	0.4	1.66	7	<10	210	0.5	<2	0.36	<0.5	9	29	66	2.93
DD021798		0.32	0.019	0.3	1.29	12	<10	250	<0.5	<2	0.30	<0.5	7	24	69	3.21
DD021799		0.28	0.024	0.3	1.90	9	<10	220	0.5	<2	0.38	<0.5	12	31	60	2.93
DD021800		0.42	0.013	0.2	1.72	10	<10	200	0.5	<2	0.43	<0.5	11	32	55	2.86



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Project: Wolverine - DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	MECP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
DD021772		10	<1	0.07	20	0.48	306	<1	0.03	18	590	3	0.03	<2	4	29
DD021773		10	<1	0.15	30	0.73	307	<1	0.03	26	570	4	0.04	<2	6	37
DD021774		10	<1	0.18	20	0.64	212	<1	0.03	16	560	7	0.12	3	4	42
DD021775		10	<1	0.08	30	0.61	525	<1	0.03	26	580	7	0.07	<2	6	46
DD021776		10	<1	0.08	30	0.55	268	1	0.02	19	640	7	0.06	4	4	39
DD021777		10	<1	0.10	20	0.47	230	<1	0.03	17	540	5	0.09	3	3	36
DD021778		10	<1	0.10	20	0.42	383	<1	0.03	20	810	6	0.10	<2	4	42
DD021779		10	<1	0.11	20	0.41	191	<1	0.03	13	620	5	0.07	3	3	31
DD021780		<10	<1	0.15	20	0.53	152	2	0.01	18	560	10	0.06	<2	3	28
DD021781		<10	<1	0.13	20	0.50	126	7	0.01	18	650	11	0.05	3	5	36
DD021782		<10	<1	0.07	10	0.54	330	1	0.01	19	520	9	0.04	2	3	28
DD021783		<10	<1	0.09	20	0.55	347	1	0.01	21	490	7	0.05	<2	4	33
DD021784		10	<1	0.06	20	0.56	317	2	0.01	17	600	10	0.04	2	3	32
DD021785		10	<1	0.12	20	0.63	409	3	0.02	25	690	11	0.09	<2	6	49
DD021786		10	<1	0.08	20	0.51	218	<1	0.01	14	600	7	0.04	2	3	29
DD021787		10	<1	0.07	10	0.55	216	<1	0.01	17	480	6	0.03	<2	4	27
DD021788		10	<1	0.06	10	0.52	281	<1	0.01	19	510	7	0.02	<2	3	28
DD021789		<10	<1	0.08	20	0.53	348	<1	0.01	21	680	10	0.06	<2	5	37
DD021790		<10	<1	0.07	20	0.36	355	<1	0.02	20	650	9	0.04	3	4	38
DD021791		<10	<1	0.06	20	0.43	502	<1	0.02	22	710	10	0.05	<2	4	52
DD021792		<10	<1	0.07	20	0.45	228	<1	0.01	17	650	7	0.04	<2	3	32
DD021793		10	<1	0.09	20	0.56	202	1	0.01	16	600	8	0.05	2	4	38
DD021794		10	<1	0.08	20	0.60	316	2	0.01	19	750	9	0.06	<2	4	39
DD021795		<10	<1	0.07	20	0.58	263	2	0.01	19	590	9	0.05	<2	4	31
DD021796		10	<1	0.10	10	0.52	343	2	0.02	19	550	8	0.06	2	3	32
DD021797		10	<1	0.09	20	0.46	180	3	0.01	17	740	7	0.05	<2	3	32
DD021798		<10	<1	0.13	20	0.39	184	7	0.01	12	640	8	0.10	2	3	32
DD021799		10	<1	0.10	20	0.47	351	2	0.01	16	610	11	0.06	<2	3	30
DD021800		<10	<1	0.08	20	0.52	217	2	0.01	18	550	9	0.03	<2	4	29



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Project: Wolverine - DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
DD021772		<20	0.08	<10	<10	49	<10	46
DD021773		<20	0.11	<10	<10	59	<10	50
DD021774		<20	0.14	<10	<10	53	<10	41
DD021775		<20	0.09	<10	<10	50	<10	46
DD021776		<20	0.05	<10	<10	43	<10	40
DD021777		<20	0.07	<10	<10	45	<10	42
DD021778		<20	0.05	<10	<10	56	<10	48
DD021779		<20	0.06	<10	<10	37	<10	38
DD021780		<20	0.08	<10	<10	40	<10	40
DD021781		<20	0.06	<10	<10	41	<10	37
DD021782		<20	0.07	<10	<10	50	<10	52
DD021783		<20	0.07	<10	<10	46	<10	48
DD021784		<20	0.05	<10	<10	42	<10	40
DD021785		<20	0.08	<10	<10	55	<10	55
DD021786		<20	0.10	<10	<10	46	<10	40
DD021787		<20	0.10	<10	<10	47	<10	43
DD021788		<20	0.07	<10	<10	46	<10	46
DD021789		<20	0.08	<10	<10	50	<10	65
DD021790		<20	0.05	<10	<10	44	<10	59
DD021791		<20	0.05	<10	<10	49	<10	50
DD021792		<20	0.07	<10	<10	50	<10	49
DD021793		<20	0.11	<10	<10	52	<10	45
DD021794		<20	0.08	<10	<10	51	<10	45
DD021795		<20	0.07	<10	<10	47	<10	48
DD021796		<20	0.06	<10	<10	49	<10	54
DD021797		<20	0.05	<10	<10	44	<10	47
DD021798		<20	0.05	<10	<10	37	<10	39
DD021799		<20	0.06	<10	<10	45	<10	60
DD021800		<20	0.08	<10	<10	48	<10	51



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CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01



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CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1



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CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2



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Project: Wolverine - DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME-CP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
DD021504		0.28	0.009	<0.2	1.55	7	<10	160	<0.5	<2	0.40	<0.5	8	29	34	2.42
DD021505		0.34	0.021	<0.2	1.51	8	<10	190	<0.5	<2	0.41	<0.5	9	30	40	2.67
DD021506		0.30	0.016	0.2	1.64	11	<10	150	0.5	<2	0.38	<0.5	7	32	46	2.65
DD021507		0.30	0.022	<0.2	1.37	5	<10	160	<0.5	<2	0.35	<0.5	6	25	37	2.36
DD021508		0.32	0.030	<0.2	1.24	17	<10	140	<0.5	<2	0.31	<0.5	8	25	69	3.33
DD021509		0.44	0.062	0.8	1.76	16	<10	290	0.8	<2	0.47	<0.5	13	32	148	3.38
DD021510		0.26	0.006	<0.2	1.40	20	<10	130	0.6	<2	0.63	<0.5	11	26	25	2.82
DD021511		0.32	0.010	<0.2	1.43	15	<10	140	0.5	<2	0.47	<0.5	8	24	22	2.46
DD021512		0.26	0.006	0.3	1.50	15	<10	130	0.8	<2	0.92	<0.5	9	27	32	2.68
DD021513		0.10	0.006	0.2	1.55	6	<10	180	0.5	<2	0.59	<0.5	9	31	27	1.85
DD021514		0.30	0.005	0.2	1.36	15	<10	130	0.5	<2	0.84	<0.5	10	27	31	2.49
DD021515		0.28	0.006	<0.2	1.63	14	<10	150	<0.5	<2	0.45	<0.5	9	26	19	2.59
DD021516		0.24	0.034	0.6	1.46	13	<10	240	0.6	<2	0.75	<0.5	10	22	86	2.44
DD021517		0.22	0.036	0.3	1.64	10	<10	170	<0.5	<2	0.35	<0.5	5	28	59	3.16
DD021518		0.38	0.130	0.2	1.50	11	<10	160	0.5	<2	0.32	<0.5	8	29	57	2.57
DD021519		0.36	0.009	0.2	1.52	9	<10	160	0.5	<2	0.45	<0.5	7	30	39	2.29
DD021520		0.26	0.012	<0.2	1.53	9	<10	200	<0.5	<2	0.40	<0.5	6	29	39	2.52
DD021801		0.50	0.011	<0.2	1.55	9	<10	170	<0.5	<2	0.34	<0.5	8	28	48	2.82
DD021802		0.30	0.022	0.2	1.43	7	<10	180	<0.5	<2	0.32	<0.5	7	24	46	2.64



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Project: Wolverine - DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
DD021504		10	<1	0.06	10	0.46	170	1	0.03	15	570	8	0.01	<2	3
DD021505		10	<1	0.06	20	0.50	200	2	0.03	16	630	8	0.02	2	3
DD021506		10	<1	0.06	20	0.51	131	1	0.03	17	610	9	0.02	2	4
DD021507		10	<1	0.06	10	0.39	153	1	0.03	14	560	6	0.02	<2	3
DD021508		<10	<1	0.10	20	0.41	199	1	0.03	16	620	6	0.06	2	3
DD021509		10	<1	0.08	30	0.42	346	5	0.03	24	700	9	0.02	<2	6
DD021510		<10	<1	0.07	20	0.44	407	1	0.03	20	620	11	0.01	<2	4
DD021511		<10	<1	0.05	20	0.39	249	<1	0.03	18	430	9	<0.01	<2	4
DD021512		<10	<1	0.05	20	0.63	411	<1	0.03	19	870	8	0.01	<2	5
DD021513		<10	<1	0.05	10	0.45	172	<1	0.04	21	670	9	0.06	2	3
DD021514		<10	<1	0.06	10	0.46	299	<1	0.04	20	830	6	0.02	<2	4
DD021515		10	<1	0.06	10	0.46	304	1	0.03	17	380	7	0.01	<2	3
DD021516		<10	<1	0.07	20	0.28	427	1	0.04	16	770	8	0.04	<2	4
DD021517		10	<1	0.09	20	0.40	107	1	0.03	14	750	8	0.04	<2	3
DD021518		10	<1	0.08	20	0.42	125	1	0.03	17	560	8	0.01	<2	3
DD021519		10	<1	0.05	20	0.48	127	1	0.03	17	580	9	0.02	<2	4
DD021520		10	<1	0.06	20	0.44	119	1	0.03	15	700	9	0.02	2	4
DD021801		10	<1	0.08	20	0.46	231	3	0.03	16	520	7	0.02	2	3
DD021802		<10	<1	0.07	10	0.38	123	10	0.03	14	580	7	0.03	<2	2



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Project: Wolverine - DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
DD021504		<20	0.08	<10	<10	42	<10	43
DD021505		<20	0.08	<10	<10	46	<10	43
DD021506		<20	0.07	<10	<10	46	<10	44
DD021507		<20	0.07	<10	<10	38	<10	34
DD021508		<20	0.08	<10	<10	39	<10	38
DD021509		<20	0.05	<10	<10	46	<10	45
DD021510		<20	0.05	<10	<10	41	<10	45
DD021511		<20	0.06	<10	<10	44	<10	42
DD021512		<20	0.06	<10	<10	48	<10	45
DD021513		<20	0.06	<10	<10	46	<10	61
DD021514		<20	0.07	<10	<10	50	<10	46
DD021515		<20	0.07	<10	<10	52	<10	52
DD021516		<20	0.04	<10	<10	43	<10	51
DD021517		<20	0.06	<10	<10	43	<10	38
DD021518		<20	0.07	<10	<10	44	<10	39
DD021519		<20	0.08	<10	<10	46	<10	45
DD021520		<20	0.07	<10	<10	45	<10	42
DD021801		<20	0.07	<10	<10	44	<10	41
DD021802		<20	0.05	<10	<10	39	<10	37



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Project: Wolverine - DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME-CP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
DD021803		0.40	0.064	0.3	1.45	17	<10	230	0.7	<2	0.39	<0.5	13	34	121	4.15
DD021804		0.30	0.041	0.4	1.80	9	<10	210	0.5	<2	0.43	<0.5	10	32	57	3.27
DD021805		0.38	0.063	0.2	1.55	8	<10	190	0.5	<2	0.43	<0.5	10	31	62	2.91
DD021806		0.44	0.051	0.2	1.53	8	<10	180	<0.5	<2	0.36	<0.5	8	29	71	2.74
DD021807		0.42	0.019	<0.2	2.04	11	<10	230	0.6	<2	0.42	<0.5	12	36	45	3.16
DD021808		0.36	0.004	0.2	1.59	13	<10	190	0.6	<2	0.64	<0.5	12	27	34	2.66
DD021809		0.32	0.010	0.2	1.51	24	<10	140	0.7	<2	0.55	<0.5	10	26	27	2.84
DD021810		0.32	0.004	0.2	1.51	19	<10	160	0.6	<2	0.70	<0.5	10	27	27	2.79
DD021811		0.28	0.008	0.2	1.62	10	<10	150	<0.5	<2	0.46	<0.5	8	23	21	2.47
DD021812		0.40	0.010	0.3	1.93	24	<10	170	0.9	<2	0.76	<0.5	13	32	47	3.33
DD021813		0.46	0.067	0.4	1.81	12	<10	170	<0.5	<2	0.31	<0.5	9	30	113	3.21
DD021814		0.44	0.032	0.2	1.71	8	<10	180	<0.5	<2	0.36	<0.5	8	31	63	3.06
DD021815		0.36	0.022	0.2	1.52	7	<10	170	<0.5	<2	0.35	<0.5	7	28	40	2.57
DD021816		0.36	0.025	<0.2	1.48	9	<10	180	0.5	<2	0.34	<0.5	8	31	54	2.78
DD021817		0.46	0.011	0.2	1.30	9	<10	180	<0.5	<2	0.31	<0.5	5	24	46	2.40
DD021818		0.42	0.008	<0.2	1.47	6	<10	170	<0.5	<2	0.33	<0.5	8	26	43	2.42
DD021521		0.26	0.007	<0.2	1.12	7	<10	160	<0.5	<2	0.26	<0.5	4	19	22	1.48
DD021522		0.44	0.008	<0.2	1.57	17	<10	140	<0.5	<2	0.25	<0.5	6	28	26	2.66



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CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	MECP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
DD021803		<10	<1	0.14	20	0.46	252	5	0.03	25	710	9	0.10	2	4
DD021804		10	<1	0.07	20	0.51	326	1	0.03	18	600	10	0.03	<2	4
DD021805		10	<1	0.08	20	0.54	241	1	0.03	17	550	7	0.02	<2	4
DD021806		10	<1	0.07	20	0.51	221	<1	0.03	15	510	6	0.02	<2	4
DD021807		10	<1	0.07	20	0.60	460	<1	0.03	25	490	6	0.01	<2	4
DD021808		<10	<1	0.06	20	0.43	619	<1	0.03	19	880	9	0.03	2	3
DD021809		<10	1	0.07	20	0.43	356	<1	0.03	20	710	10	0.01	<2	5
DD021810		<10	<1	0.06	20	0.52	473	<1	0.02	23	830	10	0.01	<2	5
DD021811		<10	<1	0.05	10	0.42	272	1	<0.01	18	590	7	<0.01	<2	3
DD021812		10	<1	0.09	50	0.58	430	1	0.01	29	850	10	0.02	<2	5
DD021813		10	<1	0.08	10	0.51	300	2	<0.01	16	530	7	0.03	<2	3
DD021814		10	1	0.08	20	0.54	215	1	0.01	17	570	7	0.02	<2	4
DD021815		10	<1	0.07	20	0.49	159	1	<0.01	15	530	7	0.02	<2	3
DD021816		<10	<1	0.06	20	0.51	147	2	<0.01	19	630	7	0.01	<2	3
DD021817		<10	<1	0.06	10	0.43	114	4	<0.01	13	550	6	0.02	<2	2
DD021818		<10	<1	0.06	20	0.46	193	1	0.01	16	520	6	0.01	<2	3
DD021521		<10	<1	0.06	10	0.32	126	<1	<0.01	11	580	7	0.04	<2	2
DD021522		10	<1	0.09	20	0.48	145	1	<0.01	16	730	9	<0.01	<2	3



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CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
DD021803		<20	0.07	<10	<10	42	<10	47
DD021804		<20	0.07	<10	<10	45	<10	44
DD021805		<20	0.09	<10	<10	46	<10	45
DD021806		<20	0.10	<10	<10	47	<10	43
DD021807		<20	0.10	<10	<10	59	<10	53
DD021808		<20	0.05	<10	<10	46	<10	47
DD021809		<20	0.06	<10	<10	42	<10	51
DD021810		<20	0.07	<10	<10	46	<10	56
DD021811		<20	0.05	<10	<10	45	<10	42
DD021812		<20	0.05	<10	<10	43	<10	49
DD021813		<20	0.08	<10	<10	52	<10	50
DD021814		<20	0.08	<10	<10	46	<10	40
DD021815		<20	0.07	<10	<10	40	<10	38
DD021816		<20	0.06	<10	<10	41	<10	41
DD021817		<20	0.06	<10	<10	36	<10	34
DD021818		<20	0.07	<10	<10	39	<10	41
DD021521		<20	0.05	<10	<10	26	<10	46
DD021522		<20	0.08	<10	<10	45	<10	60

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME-ICP41	ME- ICP41	ME- ICP41
		Recvd Wt.	Au	Ag	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01



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CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1



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CERTIFICATE OF ANALYSIS WH11169041

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2



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CERTIFICATE WH11170917

Project: DDD/Shamrock- Wolverine

P.O. No.:

This report is for 48 Rock samples submitted to our lab in Whitehorse, YT, Canada on 16- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
SPL- 22Y	Split Sample - Boyd Rotary Splitter
CRU- 31	Fine crushing - 70% <2mm
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: DDD/Shamrock- Wolverine

CERTIFICATE OF ANALYSIS WH11170917

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K975376		1.42	0.052	0.3	1.29	<2	<10	280	0.7	2	0.43	<0.5	5	35	401	1.89
K975377		1.54	0.049	0.3	1.32	<2	<10	210	0.6	3	0.45	<0.5	5	44	435	1.98
K975378		1.71	0.062	<0.2	1.35	<2	<10	150	0.7	4	0.48	<0.5	6	41	610	1.98
K975379		1.49	0.043	<0.2	1.23	<2	<10	3410	0.8	4	0.53	<0.5	6	18	475	1.90
K975380		1.23	0.057	<0.2	1.40	<2	<10	690	0.7	3	0.36	<0.5	7	37	433	2.14
K975381		1.19	0.041	0.2	0.88	<2	<10	1610	0.7	2	0.26	<0.5	8	7	451	1.56
K975382		1.25	0.036	<0.2	1.21	<2	<10	340	0.6	2	0.34	<0.5	7	14	379	1.65
K975383		1.35	0.043	<0.2	1.12	2	<10	220	0.5	<2	0.35	<0.5	7	13	343	1.71
K975384		1.47	0.048	<0.2	1.29	<2	<10	260	0.6	<2	0.34	<0.5	8	25	443	1.78
K975385		1.27	0.048	<0.2	1.18	<2	<10	590	0.6	<2	0.34	<0.5	8	19	490	1.72
K975386		1.43	0.042	<0.2	1.93	<2	<10	260	0.8	<2	0.62	<0.5	8	49	474	1.79
K975387		1.49	0.028	<0.2	1.81	<2	<10	250	0.8	<2	0.46	<0.5	8	58	396	1.83
K975388		1.44	0.037	0.2	1.98	<2	<10	150	0.9	<2	0.43	<0.5	10	55	464	2.18
K975389		1.36	0.075	0.3	1.56	<2	<10	140	0.8	<2	0.42	<0.5	7	47	459	1.82
K975390		1.19	0.040	0.2	1.57	<2	<10	210	0.9	<2	0.40	<0.5	9	33	418	1.61
K975391		1.31	0.037	0.2	1.74	<2	<10	220	0.9	<2	0.52	<0.5	8	49	400	1.80
K975392		1.11	0.028	0.2	1.40	2	<10	250	0.8	<2	0.42	<0.5	7	22	392	1.47
K975393		1.54	0.043	0.2	1.02	<2	<10	740	0.7	<2	0.25	<0.5	11	15	392	1.88
K975394		1.27	0.036	<0.2	1.97	<2	<10	70	1.3	<2	0.83	<0.5	5	10	258	1.60
K975395		1.01	0.026	0.2	2.03	<2	<10	70	1.2	<2	0.83	0.5	6	8	273	1.37
K975396		1.25	0.017	<0.2	2.04	<2	<10	90	1.1	<2	0.69	<0.5	12	26	385	1.58
K975397		0.56	0.064	0.6	1.42	<2	<10	290	1.0	<2	0.39	<0.5	9	36	583	3.87
K975398		1.34	0.111	0.5	1.43	<2	<10	100	1.1	<2	0.41	<0.5	9	44	680	2.64
K975399		1.77	0.110	0.9	1.61	<2	<10	140	1.2	<2	0.47	<0.5	13	44	821	3.23
K975400		1.43	0.077	0.3	1.86	<2	<10	170	0.9	<2	0.52	<0.5	11	51	537	1.48
K974641		1.54	0.026	<0.2	1.19	<2	<10	200	0.5	<2	0.60	<0.5	6	18	281	3.02
K974642		1.45	0.015	<0.2	1.19	<2	<10	200	0.5	<2	0.72	<0.5	6	19	228	2.48
K974643		1.56	0.025	<0.2	1.19	<2	<10	210	0.5	<2	0.57	<0.5	6	17	355	2.32
K974644		1.46	0.026	<0.2	1.17	<2	<10	210	0.5	<2	0.61	<0.5	6	17	261	2.41
K974645		1.31	0.028	<0.2	1.28	<2	<10	200	0.5	<2	0.47	<0.5	7	17	351	2.36
K974646		1.52	0.028	<0.2	1.22	<2	<10	230	<0.5	<2	0.48	<0.5	6	17	335	2.56
K974647		1.50	0.027	<0.2	1.20	<2	<10	310	<0.5	<2	0.40	<0.5	7	16	390	4.07
K974648		0.84	0.038	<0.2	1.01	<2	<10	410	<0.5	<2	0.33	<0.5	6	19	321	2.60
K974649		0.79	0.106	0.4	0.81	<2	<10	1560	0.6	<2	0.22	<0.5	10	13	566	1.62
K974650		0.54	0.029	0.3	0.64	2	<10	1870	0.5	<2	0.16	<0.5	5	16	449	1.13
K974651		1.21	0.023	<0.2	2.20	<2	<10	280	1.0	<2	0.90	<0.5	10	47	341	1.27
K974652		1.23	0.054	0.3	2.22	<2	<10	220	1.3	<2	0.68	<0.5	11	48	473	2.16
K974653		1.38	0.140	0.8	2.52	<2	<10	270	1.8	<2	0.90	<0.5	13	50	857	3.18
K974654		0.66	0.129	0.7	1.92	<2	<10	190	1.4	<2	0.59	<0.5	14	42	782	3.63
K974655		1.66	0.075	0.6	1.98	<2	<10	210	1.2	<2	0.85	<0.5	12	37	610	2.41



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CERTIFICATE OF ANALYSIS WH11170917

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
K975376		10	<1	0.30	20	0.80	115	10	0.07	14	600	5	0.01	<2	7	26
K975377		10	1	0.32	20	0.87	115	7	0.07	17	640	5	0.01	<2	8	24
K975378		10	1	0.31	20	1.02	137	9	0.07	17	670	4	0.01	<2	8	27
K975379		<10	<1	0.26	20	0.65	184	18	0.05	10	780	6	0.09	<2	6	127
K975380		<10	<1	0.33	20	0.83	159	8	0.05	15	590	5	0.02	<2	7	28
K975381		<10	<1	0.28	20	0.33	190	19	0.04	6	730	7	0.04	<2	4	65
K975382		<10	<1	0.23	20	0.70	134	13	0.06	6	700	6	0.01	<2	4	25
K975383		<10	<1	0.22	20	0.65	161	12	0.05	6	790	5	0.01	<2	4	20
K975384		10	<1	0.28	20	0.82	158	13	0.05	10	660	5	0.01	<2	5	21
K975385		10	<1	0.22	20	0.72	125	12	0.06	9	650	7	0.02	<2	4	28
K975386		10	<1	0.27	20	1.02	124	7	0.09	19	750	7	0.02	<2	9	29
K975387		10	<1	0.35	30	1.02	117	7	0.07	24	650	6	0.02	<2	9	23
K975388		10	<1	0.37	30	1.02	129	5	0.08	26	330	5	0.02	<2	9	23
K975389		10	<1	0.28	30	0.78	112	16	0.07	27	430	6	0.01	<2	8	20
K975390		10	<1	0.39	30	0.70	105	7	0.07	17	480	8	0.02	<2	7	29
K975391		10	<1	0.31	30	0.87	122	7	0.09	25	420	10	0.02	<2	9	29
K975392		10	<1	0.30	20	0.49	115	8	0.06	12	540	8	0.02	2	5	32
K975393		<10	<1	0.36	20	0.30	157	15	0.03	12	650	7	0.03	<2	4	48
K975394		10	<1	0.17	20	0.55	86	10	0.07	7	720	11	0.04	<2	4	88
K975395		10	<1	0.17	20	0.60	115	10	0.09	9	760	10	0.03	<2	4	46
K975396		10	<1	0.20	20	0.75	114	10	0.08	17	650	7	0.03	<2	5	42
K975397		10	<1	0.17	20	0.67	98	29	0.05	14	620	7	0.06	<2	5	29
K975398		10	<1	0.16	20	0.54	103	27	0.06	16	580	6	0.06	<2	4	25
K975399		10	<1	0.18	20	0.75	130	20	0.05	20	590	7	0.05	<2	6	33
K975400		10	<1	0.30	20	0.98	109	15	0.09	26	400	5	0.05	<2	7	53
K974641		10	<1	0.23	20	0.68	166	<1	0.10	4	890	3	0.01	<2	5	40
K974642		10	<1	0.21	20	0.64	188	<1	0.11	5	900	4	0.01	<2	4	45
K974643		10	<1	0.24	20	0.77	151	1	0.09	3	870	4	0.01	<2	6	37
K974644		10	<1	0.22	20	0.70	161	<1	0.09	4	880	3	0.01	<2	5	37
K974645		10	<1	0.24	20	0.75	177	2	0.08	5	910	3	0.01	<2	5	34
K974646		10	<1	0.28	20	0.76	180	5	0.07	4	930	3	0.01	<2	5	32
K974647		10	<1	0.27	20	0.70	172	7	0.06	5	860	2	0.01	<2	5	34
K974648		10	<1	0.30	20	0.76	143	8	0.06	6	750	2	0.02	<2	6	26
K974649		<10	<1	0.32	10	0.25	233	23	0.01	10	680	9	0.04	<2	6	39
K974650		<10	<1	0.30	20	0.18	158	19	0.03	10	470	7	0.05	<2	4	36
K974651		10	<1	0.20	20	1.00	131	8	0.12	23	520	6	0.04	<2	7	55
K974652		10	<1	0.36	30	0.99	115	23	0.08	22	570	6	0.03	<2	9	49
K974653		10	<1	0.21	20	0.75	113	26	0.11	25	440	7	0.03	<2	9	59
K974654		10	<1	0.22	20	0.65	118	29	0.06	20	570	7	0.03	<2	7	32
K974655		10	<1	0.19	20	0.53	120	20	0.09	18	310	7	0.03	<2	6	419



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Project: DDD/Shamrock- Wolverine

CERTIFICATE OF ANALYSIS WH11170917

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
K975376		<20	0.13	<10	<10	53	<10	24
K975377		<20	0.17	<10	<10	65	<10	26
K975378		<20	0.18	<10	<10	67	<10	27
K975379		<20	0.13	<10	<10	48	<10	25
K975380		<20	0.12	<10	<10	55	<10	27
K975381		<20	0.02	<10	<10	22	<10	19
K975382		<20	0.07	<10	<10	39	<10	25
K975383		<20	0.08	<10	<10	41	<10	22
K975384		<20	0.10	<10	<10	46	<10	24
K975385		<20	0.07	<10	<10	36	<10	25
K975386		<20	0.17	<10	<10	57	<10	26
K975387		20	0.15	<10	<10	58	<10	25
K975388		20	0.14	<10	<10	55	<10	26
K975389		20	0.11	<10	<10	51	<10	23
K975390		<20	0.08	<10	<10	42	<10	24
K975391		20	0.15	<10	<10	59	<10	29
K975392		<20	0.05	<10	<10	33	<10	22
K975393		<20	0.02	<10	<10	27	<10	23
K975394		<20	0.09	<10	<10	37	<10	24
K975395		<20	0.09	<10	<10	39	<10	32
K975396		<20	0.12	<10	<10	44	<10	34
K975397		<20	0.10	<10	<10	39	<10	22
K975398		<20	0.09	<10	<10	37	<10	21
K975399		<20	0.11	<10	<10	48	<10	24
K975400		<20	0.10	<10	<10	52	<10	21
K974641		<20	0.17	<10	<10	69	<10	25
K974642		<20	0.19	<10	<10	72	<10	27
K974643		<20	0.18	<10	<10	70	<10	25
K974644		<20	0.18	<10	<10	70	<10	26
K974645		<20	0.15	<10	<10	66	<10	26
K974646		<20	0.16	<10	<10	70	<10	28
K974647		<20	0.12	<10	<10	68	<10	29
K974648		<20	0.13	<10	<10	62	<10	25
K974649		<20	0.01	<10	<10	20	<10	19
K974650		<20	0.01	<10	<10	15	<10	13
K974651		<20	0.13	<10	<10	52	<10	23
K974652		20	0.16	<10	<10	66	<10	24
K974653		20	0.16	<10	<10	64	<10	26
K974654		20	0.13	<10	<10	58	<10	22
K974655		20	0.10	<10	<10	43	<10	23



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CERTIFICATE OF ANALYSIS WH11170917

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
K974656		0.99	0.090	0.4	1.91	<2	<10	120	0.9	<2	0.68	<0.5	10	51	463	3.29
K974657		0.96	0.038	<0.2	2.27	<2	<10	190	0.6	<2	0.93	<0.5	11	25	134	2.40
K974658		1.32	0.043	0.2	2.12	<2	<10	230	0.8	<2	0.63	<0.5	8	33	464	2.50
K974659		1.03	0.032	<0.2	1.63	2	<10	350	0.7	<2	0.67	<0.5	8	18	426	2.11
K974660		0.98	0.054	0.2	1.15	<2	<10	90	0.5	<2	0.30	<0.5	5	20	400	1.63
K974661		0.81	0.054	0.2	1.49	<2	<10	110	0.5	<2	0.19	<0.5	5	39	410	1.82
K974662		0.94	0.082	0.3	1.38	<2	<10	260	0.6	<2	0.27	<0.5	10	36	459	2.15
K974663		1.16	0.041	0.2	1.14	<2	<10	200	<0.5	<2	0.25	<0.5	6	18	285	1.96



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CERTIFICATE OF ANALYSIS WH11170917

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
K974656		10	<1	0.28	20	0.92	157	29	0.07	22	690	8	0.04	<2	8
K974657		10	<1	0.24	20	0.87	403	5	0.12	11	1070	5	0.01	<2	6
K974658		10	<1	0.33	30	1.00	233	41	0.08	15	860	5	0.03	<2	7
K974659		10	<1	0.17	20	0.78	215	32	0.07	9	870	7	0.02	<2	5
K974660		10	<1	0.23	20	0.57	146	33	0.05	9	520	6	0.03	<2	5
K974661		10	<1	0.45	20	0.82	139	22	0.05	20	430	6	0.03	<2	8
K974662		10	1	0.38	20	0.59	193	25	0.04	20	380	7	0.02	<2	7
K974663		10	<1	0.24	20	0.45	146	25	0.04	13	510	5	0.03	<2	4



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CERTIFICATE OF ANALYSIS WH11170917

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
K974656		20	0.15	<10	<10	67	<10	29
K974657		<20	0.19	<10	<10	48	<10	43
K974658		<20	0.15	<10	<10	55	<10	36
K974659		<20	0.18	<10	<10	44	<10	37
K974660		<20	0.10	<10	<10	40	<10	28
K974661		<20	0.10	<10	<10	54	<10	28
K974662		<20	0.09	<10	<10	44	<10	26
K974663		<20	0.06	<10	<10	31	<10	26



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CERTIFICATE WH11180244

Project: Wolverine - DDD/Shamrock

P.O. No.:

This report is for 100 Rock samples submitted to our lab in Whitehorse, YT, Canada on 7- SEP- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11180244

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
K974715		1.24	0.028	0.2	1.21	4	<10	150	0.9	<2	0.29	<0.5	7	20	379	1.96
K974716		1.04	0.033	0.3	1.63	5	<10	520	1.0	2	0.87	<0.5	9	28	353	2.57
K974717		1.17	0.100	1.1	1.83	69	<10	470	1.5	<2	0.30	<0.5	12	26	1500	5.13
K974718		1.20	0.088	0.2	1.28	19	<10	220	0.7	21	0.18	<0.5	10	30	389	3.64
K974719		1.44	0.020	0.2	1.29	4	<10	220	0.5	<2	0.07	<0.5	2	34	216	2.66
K974720		1.31	0.077	<0.2	1.49	2	<10	100	0.6	<2	0.23	<0.5	3	33	242	2.82
K974721		1.34	0.026	<0.2	1.37	2	<10	100	0.6	<2	0.18	<0.5	3	33	218	2.27
K974722		1.48	0.023	0.2	1.37	3	<10	140	0.6	<2	0.16	<0.5	3	27	236	3.69
K974723		1.21	0.011	<0.2	1.01	2	<10	290	0.6	2	0.09	<0.5	4	17	351	1.88
K974724		0.80	0.010	0.2	0.58	<2	<10	170	0.5	<2	0.07	<0.5	2	7	189	1.04
K974725		1.27	0.073	0.4	0.99	4	<10	250	0.7	2	0.10	<0.5	6	12	395	1.93
K974726		1.18	0.024	0.2	0.91	2	<10	170	0.6	<2	0.10	<0.5	4	12	271	1.78
K974727		1.28	0.017	0.3	1.12	<2	<10	170	0.6	<2	0.08	<0.5	4	13	365	2.05
K974728		1.60	0.019	0.3	1.14	7	<10	250	0.6	<2	0.07	<0.5	5	17	377	2.24
K974729		0.82	0.043	0.3	1.25	5	<10	170	0.8	<2	0.12	<0.5	6	15	609	2.54
K974730		1.32	0.056	0.4	1.28	16	<10	300	1.1	<2	0.15	<0.5	12	15	938	3.41
K974731		1.64	0.034	0.2	1.43	<2	<10	210	1.0	<2	0.08	<0.5	8	20	496	2.27
K974732		1.29	0.045	0.2	1.25	5	<10	540	0.6	<2	0.17	<0.5	5	12	310	3.02
K974733		1.39	0.037	0.3	2.11	4	<10	270	0.9	<2	0.62	<0.5	4	42	588	6.11
K974734		0.86	0.068	0.2	1.42	3	<10	580	0.6	<2	0.24	<0.5	5	12	335	3.19
K974735		1.40	0.156	0.6	2.66	5	<10	300	1.0	<2	0.76	<0.5	4	48	817	8.08
K974736		1.28	0.431	2.0	1.87	8	<10	180	0.9	<2	0.44	<0.5	5	41	1120	10.80
K974737		1.02	0.034	<0.2	1.98	3	<10	340	1.4	<2	0.36	<0.5	14	30	1020	3.32
K974738		1.31	0.112	0.8	1.92	5	<10	670	1.4	<2	0.67	<0.5	26	31	1020	5.06
K974739		1.14	0.026	0.2	2.35	4	<10	510	1.2	<2	2.15	<0.5	8	33	365	4.96
K974740		1.16	0.013	<0.2	2.23	3	<10	1020	1.3	<2	1.53	<0.5	9	36	284	2.91
K974741		0.75	0.011	<0.2	1.15	2	<10	390	0.7	<2	0.52	<0.5	6	16	156	1.44
K974742		0.85	0.045	0.4	2.46	2	<10	340	1.6	<2	1.39	<0.5	17	46	571	4.90
K974743		0.90	0.033	0.3	2.31	4	<10	710	1.3	<2	1.38	<0.5	13	41	386	3.54
K974744		0.63	0.010	<0.2	1.45	3	<10	240	1.1	<2	0.86	<0.5	7	21	457	2.14
K974745		1.05	0.014	0.2	1.39	5	<10	450	0.9	<2	0.86	0.6	10	22	355	2.47
K974746		0.95	0.022	<0.2	1.90	4	<10	370	1.2	<2	1.05	<0.5	13	48	537	3.48
K974747		1.31	0.021	0.2	1.68	6	<10	580	1.2	<2	0.76	<0.5	11	28	582	3.21
K974748		1.54	0.015	<0.2	2.31	4	<10	290	1.5	<2	1.73	0.6	15	37	769	3.61
K974749		1.39	0.029	0.2	1.47	4	<10	320	0.6	<2	0.13	<0.5	3	20	176	2.35
K974750		1.22	0.032	0.2	1.40	5	<10	400	0.6	<2	0.12	<0.5	4	19	168	2.70
K974751		1.37	0.033	0.2	1.45	4	<10	890	0.6	<2	0.11	<0.5	5	22	184	2.65



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CERTIFICATE OF ANALYSIS WH11180244

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	MEICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
K974715		<10	<1	0.25	30	0.39	164	34	0.04	14	400	7	0.03	<2	3	16
K974716		10	<1	0.17	20	0.54	223	34	0.04	13	430	7	0.06	2	4	39
K974717		10	<1	0.26	20	0.72	160	122	0.02	26	500	5	0.07	6	4	28
K974718		10	<1	0.24	20	0.47	221	51	0.04	16	350	7	0.09	2	3	35
K974719		10	<1	0.32	20	0.50	103	21	0.04	17	300	7	0.09	<2	3	37
K974720		10	<1	0.21	20	0.45	116	50	0.04	18	300	6	0.03	<2	4	21
K974721		10	<1	0.19	20	0.50	117	28	0.05	16	310	7	0.03	<2	4	26
K974722		10	<1	0.26	20	0.49	103	27	0.04	13	340	8	0.06	2	3	23
K974723		<10	<1	0.30	20	0.32	99	18	0.04	14	380	7	0.05	<2	3	20
K974724		<10	<1	0.22	10	0.11	58	19	0.06	6	160	13	0.08	2	1	15
K974725		<10	<1	0.37	20	0.21	87	32	0.04	15	360	10	0.12	2	3	25
K974726		<10	<1	0.34	20	0.20	93	27	0.03	9	300	7	0.11	<2	2	20
K974727		<10	<1	0.42	20	0.32	112	29	0.03	12	370	6	0.11	<2	2	19
K974728		<10	<1	0.45	20	0.37	118	25	0.04	19	360	12	0.09	<2	3	18
K974729		<10	<1	0.43	30	0.35	112	196	0.03	16	370	8	0.08	<2	3	19
K974730		<10	<1	0.34	20	0.33	142	60	0.03	28	430	8	0.06	2	3	23
K974731		<10	<1	0.59	30	0.41	109	70	0.04	21	400	7	0.11	<2	3	26
K974732		10	<1	0.34	20	0.55	93	25	0.05	6	660	7	0.18	<2	4	45
K974733		10	<1	0.21	20	0.63	136	14	0.06	11	570	7	0.16	<2	5	66
K974734		10	<1	0.31	20	0.70	86	19	0.08	3	890	5	0.13	<2	6	54
K974735		10	<1	0.14	20	0.69	178	14	0.05	15	530	7	0.14	<2	5	66
K974736		20	<1	0.16	20	0.32	136	79	0.10	11	680	8	0.41	<2	3	93
K974737		10	<1	0.37	20	0.43	184	46	0.03	22	690	8	0.03	<2	5	28
K974738		10	<1	0.28	20	0.50	474	28	0.07	22	500	13	0.06	2	4	55
K974739		10	<1	0.15	20	0.61	369	19	0.07	15	670	9	0.08	2	4	98
K974740		10	<1	0.18	20	0.75	402	4	0.12	20	570	11	0.07	<2	5	88
K974741		<10	<1	0.18	10	0.29	228	7	0.09	10	250	9	0.03	<2	2	36
K974742		10	<1	0.22	20	1.08	454	10	0.06	35	580	10	0.10	<2	7	46
K974743		10	<1	0.20	20	0.86	359	10	0.06	26	710	7	0.09	<2	5	56
K974744		<10	<1	0.17	10	0.33	153	19	0.06	11	310	7	0.02	<2	3	39
K974745		<10	1	0.14	20	0.35	301	5	0.05	15	370	9	0.07	<2	3	53
K974746		10	<1	0.18	20	0.58	395	9	0.07	22	550	11	0.07	<2	5	64
K974747		10	<1	0.18	20	0.55	321	7	0.07	15	370	9	0.09	<2	4	64
K974748		10	<1	0.19	20	0.63	412	9	0.06	27	590	8	0.06	<2	5	78
K974749		<10	<1	0.48	30	0.45	95	14	0.05	13	460	6	0.25	2	2	35
K974750		<10	<1	0.49	20	0.41	114	14	0.05	13	450	6	0.28	<2	2	33
K974751		10	<1	0.50	30	0.48	134	20	0.08	16	380	10	0.24	<2	2	43



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CERTIFICATE OF ANALYSIS WH11180244

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
K974715		<20	0.03	<10	<10	20	<10	22
K974716		<20	0.08	<10	<10	27	<10	36
K974717		<20	0.03	<10	<10	29	<10	33
K974718		<20	0.03	<10	<10	26	<10	22
K974719		<20	0.04	<10	<10	24	<10	14
K974720		<20	0.11	<10	<10	34	<10	16
K974721		<20	0.13	<10	<10	32	<10	16
K974722		<20	0.04	<10	<10	26	<10	16
K974723		<20	0.02	<10	<10	18	<10	15
K974724		<20	0.01	<10	<10	8	<10	8
K974725		<20	0.01	<10	<10	17	<10	14
K974726		<20	0.01	<10	<10	23	<10	13
K974727		<20	0.01	<10	<10	16	<10	15
K974728		<20	0.02	<10	<10	20	<10	21
K974729		<20	0.02	<10	<10	21	<10	17
K974730		<20	0.01	<10	<10	19	<10	19
K974731		<20	0.01	<10	<10	18	<10	16
K974732		<20	0.09	<10	<10	49	<10	18
K974733		<20	0.16	<10	<10	48	<10	27
K974734		<20	0.12	<10	<10	66	<10	20
K974735		<20	0.17	<10	<10	44	<10	30
K974736		<20	0.15	<10	<10	38	<10	23
K974737		<20	0.05	<10	<10	32	<10	29
K974738		<20	0.06	<10	<10	34	<10	41
K974739		<20	0.07	<10	<10	29	<10	38
K974740		<20	0.07	<10	<10	28	<10	42
K974741		<20	0.02	<10	<10	12	<10	17
K974742		<20	0.05	<10	<10	38	<10	48
K974743		<20	0.07	<10	<10	34	<10	39
K974744		<20	0.04	<10	<10	16	<10	20
K974745		<20	0.05	<10	<10	20	<10	26
K974746		<20	0.11	<10	<10	37	<10	34
K974747		<20	0.10	<10	<10	29	<10	29
K974748		<20	0.11	<10	<10	37	<10	40
K974749		<20	0.02	<10	<10	20	<10	12
K974750		<20	0.02	<10	<10	20	<10	15
K974751		<20	0.02	<10	<10	24	<10	19



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CERTIFICATE OF ANALYSIS WH11180244

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K974765		1.65	0.041	0.4	1.36	4	<10	150	0.9	<2	0.29	<0.5	7	22	375	1.99
K974766		1.05	0.036	0.4	1.38	2	<10	140	0.9	<2	0.41	<0.5	9	20	393	2.40
K974767		1.08	0.028	0.3	1.49	3	<10	130	0.9	<2	0.35	<0.5	11	21	339	2.28
K974773		1.28	0.065	0.6	1.71	2	<10	180	0.5	<2	0.51	<0.5	8	30	543	2.59
K974774		1.20	0.039	0.4	1.69	<2	<10	160	0.5	<2	0.50	<0.5	11	31	567	2.73
K974775		1.19	0.100	0.4	1.59	<2	<10	170	0.6	<2	0.46	<0.5	12	29	576	2.60
K974776		1.15	0.091	0.4	1.79	<2	<10	100	0.7	<2	0.65	<0.5	11	32	1005	2.78
K974777		1.32	0.212	0.5	1.81	2	<10	60	0.8	<2	0.75	<0.5	10	32	944	2.77
K974778		1.06	0.092	0.4	1.77	<2	<10	70	0.7	<2	0.71	<0.5	8	30	582	2.33
K974779		1.05	0.047	0.4	1.59	<2	<10	1010	0.8	<2	0.15	<0.5	7	33	488	1.59
K974780		1.14	0.047	0.5	0.93	<2	<10	870	0.6	<2	0.16	<0.5	8	15	419	1.12
K974781		1.14	0.041	0.5	0.94	<2	<10	420	0.6	<2	0.12	<0.5	7	17	444	1.30
K974782		1.07	0.039	0.5	0.92	<2	<10	470	0.7	<2	0.11	<0.5	13	20	527	1.32
K974783		0.95	0.087	0.8	1.24	2	<10	1460	0.9	<2	0.16	<0.5	10	30	642	1.90
K974784		1.13	0.094	0.5	1.40	<2	<10	1160	0.7	<2	0.25	<0.5	12	23	665	2.70
K974785		1.13	0.096	0.4	1.41	<2	<10	1070	0.6	<2	0.26	<0.5	11	19	648	2.32



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K974765		10	<1	0.24	20	0.62	85	26	0.08	11	540	8	0.04	<2	4	40
K974766		10	<1	0.25	30	0.72	95	30	0.09	8	690	8	0.04	<2	5	39
K974767		10	<1	0.28	20	0.70	103	22	0.09	12	590	7	0.03	<2	4	35
K974773		10	<1	0.17	20	1.12	86	11	0.07	10	900	6	0.01	<2	6	35
K974774		10	<1	0.16	20	1.04	77	12	0.08	8	890	5	0.01	2	6	41
K974775		10	<1	0.20	30	1.05	83	12	0.07	7	910	5	0.01	<2	6	32
K974776		10	<1	0.15	30	1.15	107	13	0.08	9	950	5	0.01	2	7	41
K974777		10	<1	0.14	20	1.14	101	17	0.08	7	950	5	0.01	<2	8	47
K974778		10	<1	0.13	20	1.14	100	7	0.07	8	820	6	0.01	<2	7	41
K974779		10	<1	0.69	40	0.65	139	10	0.06	20	370	10	0.05	<2	8	43
K974780		<10	<1	0.43	20	0.28	216	23	0.04	10	440	9	0.05	<2	4	36
K974781		<10	<1	0.42	20	0.29	174	40	0.04	12	240	9	0.04	<2	5	19
K974782		<10	<1	0.46	30	0.26	187	21	0.04	13	280	9	0.04	<2	5	18
K974783		10	<1	0.65	30	0.46	182	31	0.08	20	480	8	0.21	<2	8	50
K974784		10	<1	0.49	30	0.61	190	19	0.08	14	890	5	0.06	<2	6	34
K974785		10	<1	0.37	30	0.68	201	8	0.07	13	890	5	0.05	<2	5	34



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
K974765		<20	0.11	<10	<10	40	<10	18
K974766		<20	0.14	<10	<10	54	<10	20
K974767		<20	0.11	<10	<10	45	<10	19
K974773		<20	0.16	<10	<10	67	<10	13
K974774		<20	0.17	<10	<10	69	<10	11
K974775		<20	0.13	<10	<10	62	<10	12
K974776		<20	0.19	<10	<10	70	<10	16
K974777		<20	0.22	<10	<10	80	<10	15
K974778		<20	0.21	<10	<10	75	<10	15
K974779		20	0.06	<10	<10	42	<10	23
K974780		<20	0.02	<10	<10	19	<10	13
K974781		<20	0.02	<10	<10	22	<10	16
K974782		20	0.03	<10	<10	24	<10	18
K974783		20	0.06	<10	<10	38	<10	25
K974784		<20	0.05	<10	<10	43	<10	22
K974785		<20	0.01	<10	<10	35	<10	20



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Page: 4 - A
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Finalized Date: 20- OCT- 2011
Account: F

Project: Wolverine - DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11180244

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA24	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01



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CERTIFICATE OF ANALYSIS WH11180244

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	MEICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1



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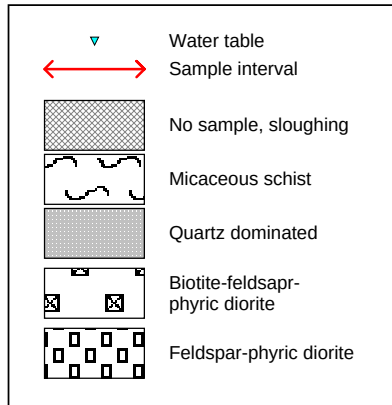
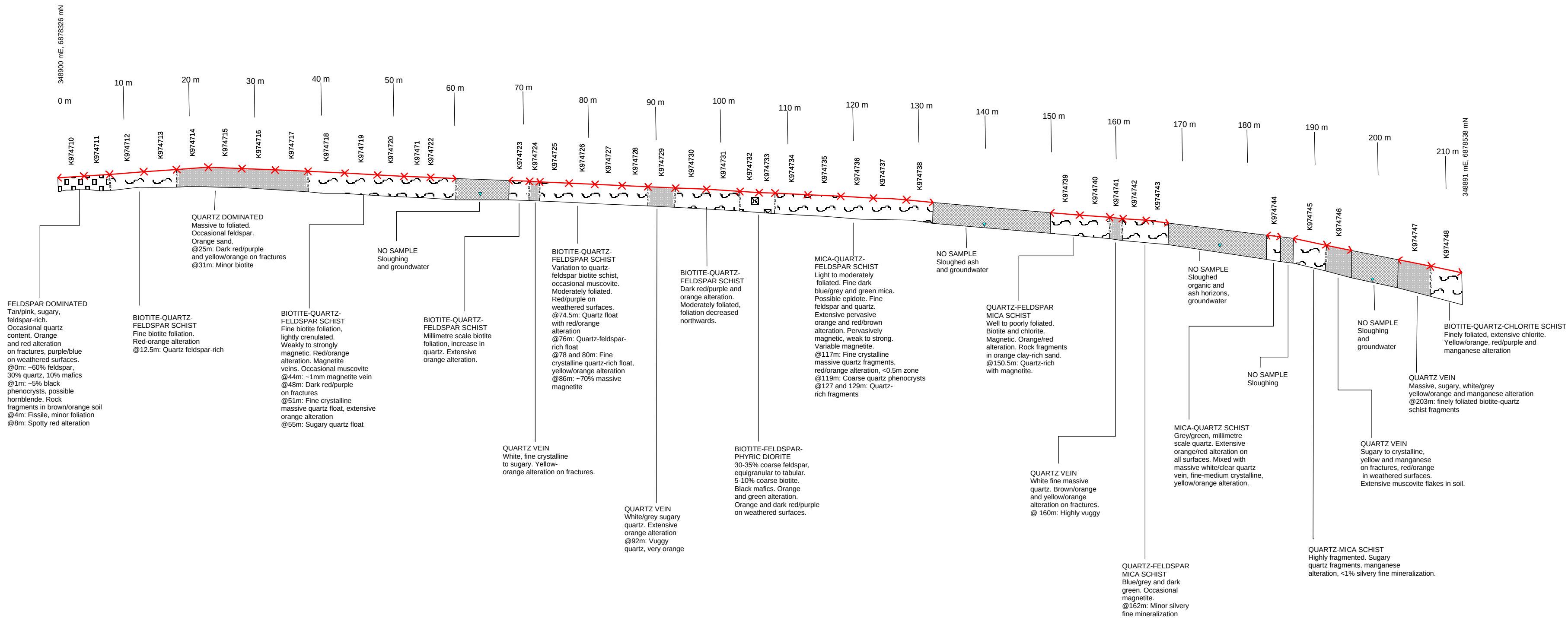
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Page: 4 - C
Total # Pages: 4 (A - C)
Finalized Date: 20- OCT- 2011
Account: F

Project: Wolverine - DDD/Shamrock

CERTIFICATE OF ANALYSIS WH11180244

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2



Azimuth

0-20m @ 356°
20-68m @ 350°
68-85m @ 359°
85-105m @ 355°
105-187m @ 005°
187-200m @ 353°
200-213m @ 348°

*Note: Trench fractured/fragmented rock, unless specified otherwise
4x Vertical exaggeration

WOLVERINE MINERALS CORP.

FIGURE 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TRENCH 01 - WEST RIB

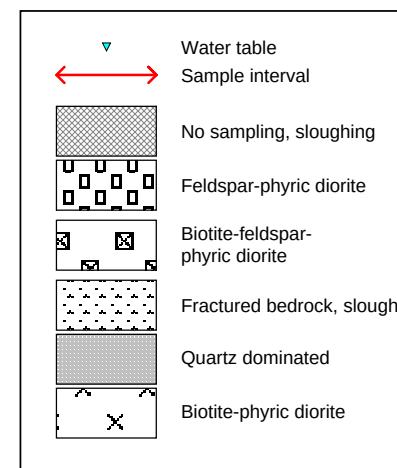
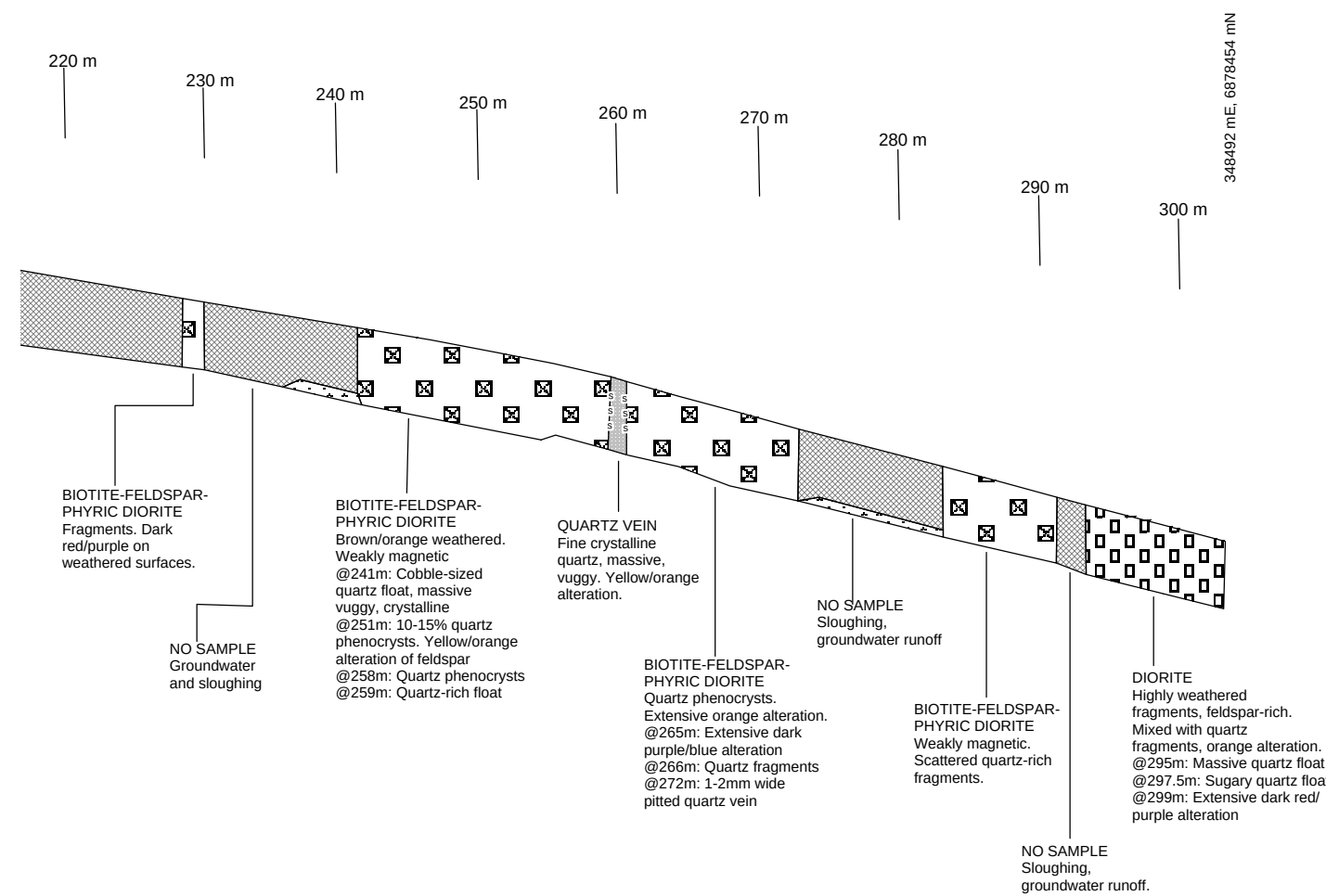
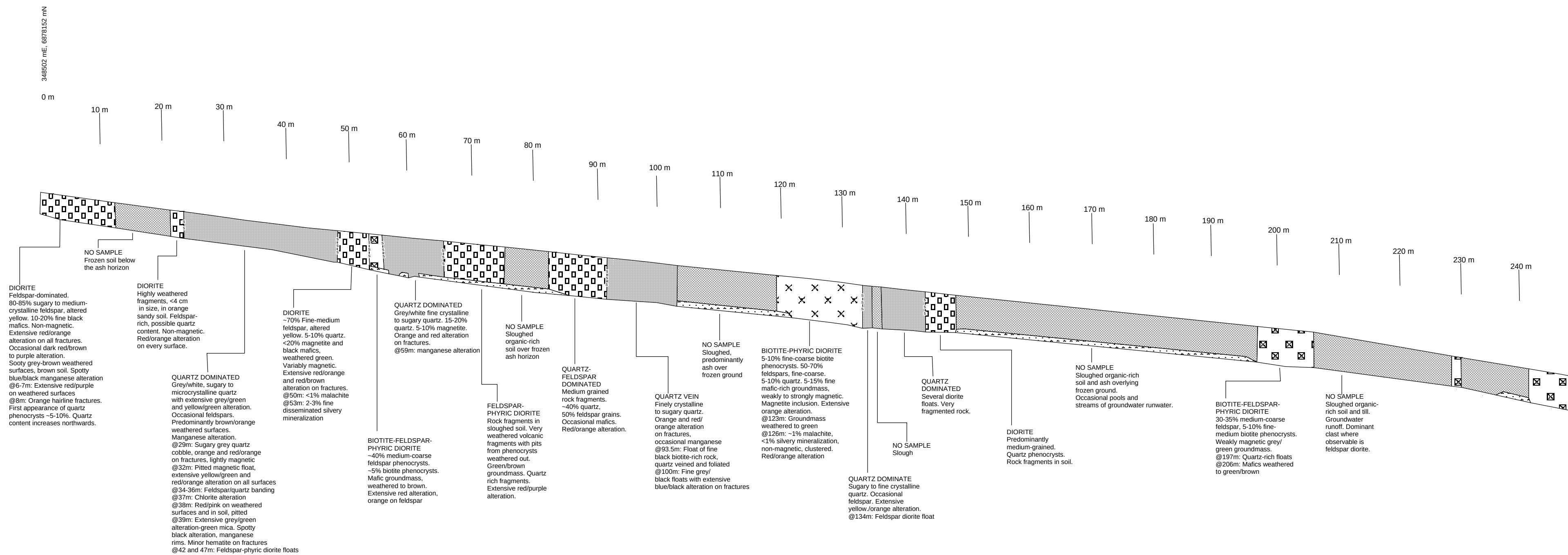
SHAMROCK PROPERTY

030 m

UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011\DShamrock-F5-Trench01.wor

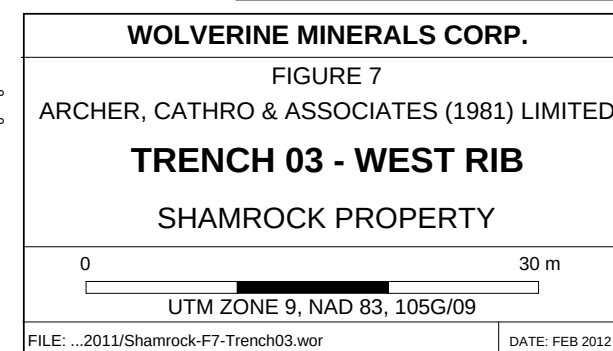
DATE: FEB 2012

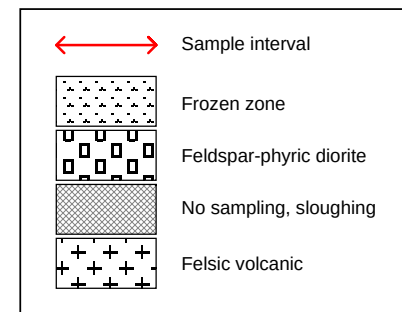
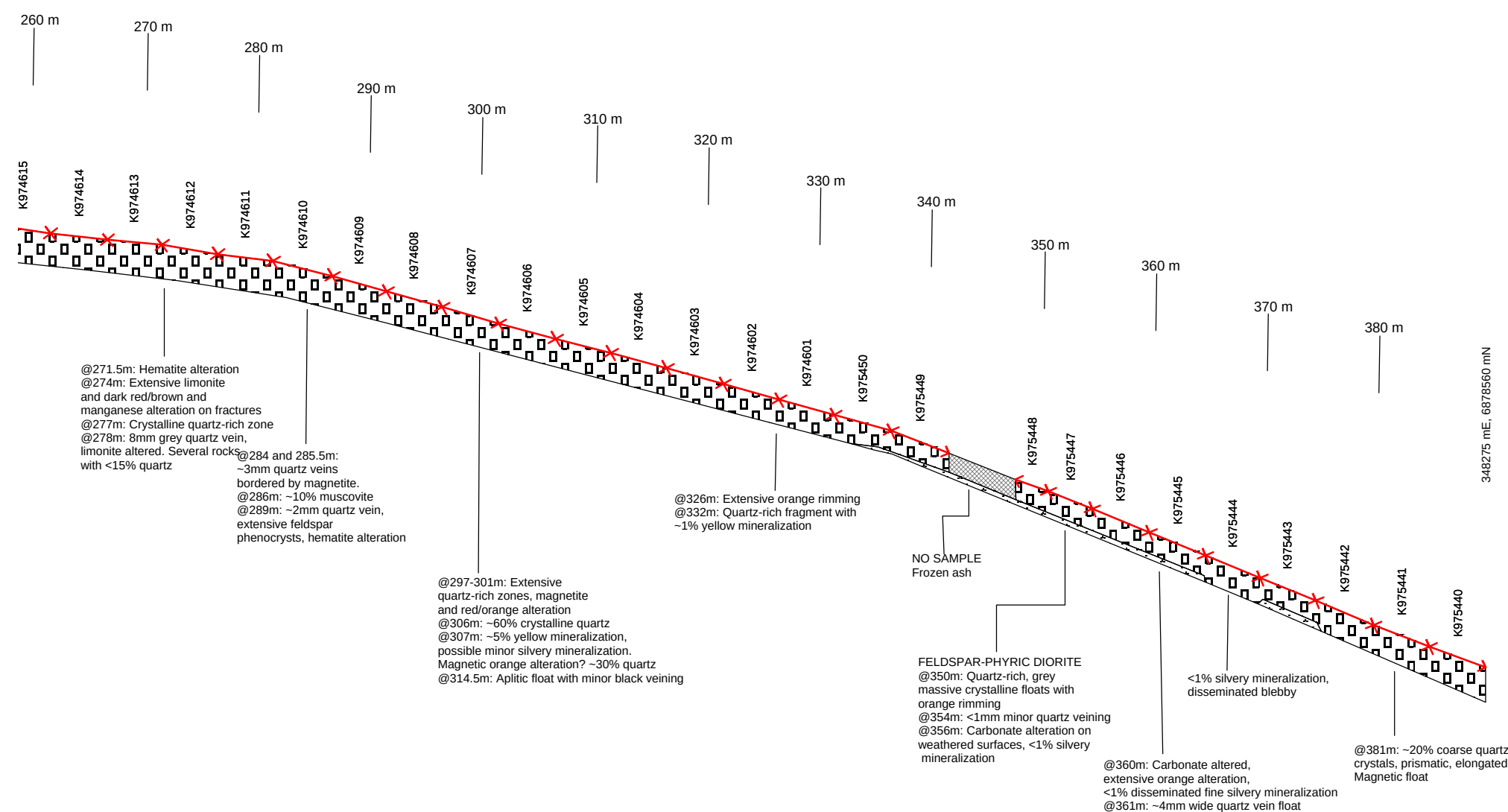
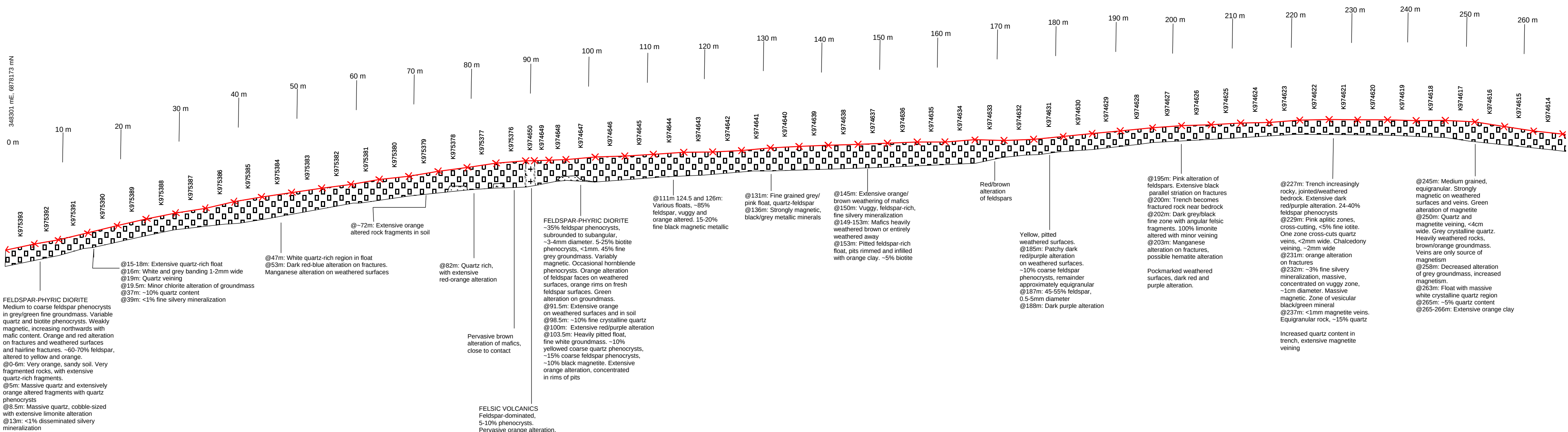


Azimuth

0-37m @ 346°
37-255m @ 359°
255-291m @ 006°
291-303m @ 356°

*Note: Trench fractured and fragmented rock, unless specified otherwise
4x Vertical exaggeration

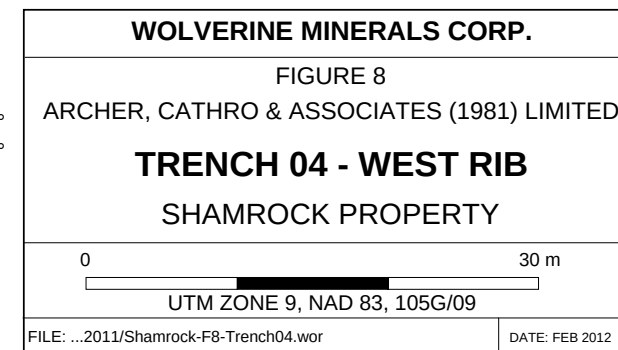




Azimuth

0-24m @ 359°
24-44m @ 340°
44-146m @ 352°
146-246m @ 355°
246-389m @ 002°

*Note: Trench fractured and fragmented rock, unless specified otherwise
4x Vertical exaggeration



Statement of Expenditures
DDD 1-778 and Shamrock 1-12 Mineral Claims
October 1, 2011



Expenses (including management fee)

Field room and board – 421 mandays @ \$190/manday	\$ 89,588.80
Capital Helicopters (1995) Inc.	186,239.41
Fireweed Helicopters	29,534.40
15317 Yukon Inc.	17,351.25
ALS Chemex	<u>106,277.64</u>
	<u>\$428,991.50</u>