ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: Geochemical, Geological, and Geophysical Assessment Report on the Kinskuch Property

TOTAL COST: $293,882.37

AUTHOR(S): Dustin Perry
SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 5658173 (Jul 29, 2017), 5668555 (Oct 6, 2017), 5677626 (Dec 15, 2017), 5677627 (Dec 15, 2017), 5677656 (Dec 15, 2017)

YEAR OF WORK: 2017

PROPERTY NAME: Kinskuch

CLAIM NAME(S) (on which work was done): 385586, 385587, 385591, 385592, 385602, 385603, 385604, 1027569, 1027728, 1031466, 1032010, 1035460, 1035461, 1035598, 1035604, 1035609, 1039727, 1041678, 1041731, and 1041734

COMMODITIES SOUGHT: Copper, Gold, Lead, Zinc, Silver

MINERAL INVENTORY MINFILE NUMBER(S),IF KNOWN: 103P 016

MINING DIVISION: Skeena
NTS / BCGS: 103P11 / 103P064
LATITUDE: 55° 38’ 33.87”
LONGITUDE: 129° 20’ 46.89" (at centre of work)
UTM Zone: 9 EASTING: 478119 NORTHING: 6166373

OWNER(S): OK2 Minerals Ltd (Formerly Gold Jubilee Capital Corp.)

MAILING ADDRESS: 480-505 Burrard St. Vancouver, BC. V7X 1M3

OPERATOR(S) [who paid for the work]: Same as Above

MAILING ADDRESS:

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**)

The property is underlain by volcano-sedimentary rocks of the Hazelton and Stuhini formations. Several phases of dioritic intrusives are present on the property. Mineralization on the property is comprised of disseminated chalcopyrite and pyrite over broad areas as well as quartz sulfide veining. Elsewhere on the property VMS style mineralization occurs as silicified and sericitized volcanics.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 20574, 21915, 30581, 32436, 35741

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	4340Ha	All	**$118,813.00**
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne	331.5	All	**$56,256.37**
GEOCHEMICAL (number of samples analysed for …)			
Soil			
Silt	5	All	
Rock	196		**$118,813.00**
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)			

Topo/Photogrammetric (scale, area)		
Legal Surveys (scale, area)		
Road, local access (km)/trail		
Trench (number/metres)		
Underground development (metres)		
Other		
	TOTAL COST	**$293,882.37**

BRITISH COLUMBIA

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Exploration and Development Work / Expiry Date Change Event Detail

Event Number ID	**5658173**
Recorded Date	2017/jul/29
Work Type	Technical Work (T)
Technical Items	Geological (G), PAC Withdrawal (up to 30% of technical work required) (W3)
Work Start Date	2017/jun/10
Work Stop Date	2017/jul/29
Total Value of Work	$ 5000.00
Mine Permit Number	

Summary of the work value:

Title Numbers	**1041678**
Claim Name/Property	GOLDEN MICKEY
Issue Date	2015/feb/01
Work Performed Index	Y
Old Good To Date	2017/aug/01
New Good To Date	2018/nov/17
Numbers of Days Forward	473
Area in Ha	547.44
Applied Work Value	$ 5714.36
Submission Fee	$ 0.00
Title Numbers	**1041731**
Claim Name/Property	GM BOTTOM
Issue Date	2016/feb/02
Work Performed Index	Y
Old Good To Date	2017/aug/02
New Good To Date	2018/nov/21
Numbers of Days Forward	476
Area in Ha	109.52
Applied Work Value	$ 714.15
Submission Fee	$ 0.00
Title Numbers	**1041734**
Claim Name/Property	GM TOP
Issue Date	2016/feb/02
Work Performed Index	Y
Old Good To Date	2017/aug/02
New Good To Date	2018/nov/21
Numbers of Days Forward	476
Area in Ha	109.45

Applied Work Value	$ 713.69
Submission Fee	$ 0.00

Financial Summary:

Total Applied Work Value:	$ 7142.20
PAC name	chughmaddin
Debited PAC amount	$ 2142.20
Credited PAC amount	$
Total Submission Fees	$ 0.00
Total Paid	$ 0.00

Related Summary:

Existing Work Program Event Numbers	5677626

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Exploration and Development Work / Expiry Date Change Event Detail

Event Number ID	**5668555**
Recorded Date	2017/oct/06
Work Type	Technical Work (T)
Technical Items	Geological (G), Prospecting (PR), Preparatory Surveys (TS)
Work Start Date	2017/jul/15
Work Stop Date	2017/sep/01
Total Value of Work	$ 25000.00
Mine Permit Number	

Summary of the work value:

Title Numbers	**1027569**
Claim Name/Property	
Issue Date	2014/apr/17
Work Performed Index	Y
Old Good To Date	2022/may/12
New Good To Date	2023/may/12
Numbers of Days Forward	365
Area in Ha	73.13
Applied Work Value	$ 1462.24
Submission Fee	$ 0.00
Title Numbers	**1035461**
Claim Name/Property	GLACIER SKEENA WEST
Issue Date	2014/apr/17
Work Performed Index	Y
Old Good To Date	2022/may/12
New Good To Date	2023/may/12
Numbers of Days Forward	365
Area in Ha	36.56
Applied Work Value	$ 731.12
Submission Fee	$ 0.00
Title Numbers	**1035460**
Claim Name/Property	GLACIER SKEENA NORTH
Issue Date	2014/apr/17
Work Performed Index	Y
Old Good To Date	2017/oct/17
New Good To Date	2019/nov/04
Numbers of Days Forward	748
Area in Ha	237.55
Applied Work Value	$ 5516.92
Submission Fee	$ 0.00
Title Numbers	**1035604**

Claim Name/Property	VMS NORTH
Issue Date	2015/apr/22
Work Performed Index	Y
Old Good To Date	2017/oct/22
New Good To Date	2019/nov/04
Numbers of Days Forward	743
Area in Ha	602.68
Applied Work Value	$ 10756.76
Submission Fee	$ 0.00
Title Numbers	**1031466**
Claim Name/Property	GOLDEN MICKEY
Issue Date	2014/oct/08
Work Performed Index	Y
Old Good To Date	2017/oct/08
New Good To Date	2019/nov/04
Numbers of Days Forward	757
Area in Ha	54.81
Applied Work Value	$ 1156.90
Submission Fee	$ 0.00
Title Numbers	**1027728**
Claim Name/Property	
Issue Date	2014/apr/21
Work Performed Index	Y
Old Good To Date	2017/oct/21
New Good To Date	2019/nov/04
Numbers of Days Forward	744
Area in Ha	18.27
Applied Work Value	$ 421.28
Submission Fee	$ 0.00
Title Numbers	**1039727**
Claim Name/Property	
Issue Date	2015/nov/03
Work Performed Index	Y
Old Good To Date	2017/nov/03
New Good To Date	2019/nov/04
Numbers of Days Forward	731
Area in Ha	36.53
Applied Work Value	$ 549.00
Submission Fee	$ 0.00
Title Numbers	**1032010**
Claim Name/Property	
Issue Date	2014/nov/03
Work Performed Index	Y
Old Good To Date	2017/nov/03
New Good To Date	2019/nov/04
Numbers of Days Forward	731
Area in Ha	18.27
Applied Work Value	$ 366.05
Submission Fee	$ 0.00
Title Numbers	**1035609**
Claim Name/Property	VMS SOUTH
Issue Date	2015/apr/22
Work Performed Index	Y
Old Good To Date	2017/oct/22
New Good To Date	2019/nov/04
Numbers of Days Forward	743
Area in Ha	182.75

Applied Work Value	$ 3261.71
Submission Fee	$ 0.00
Title Numbers	**1035598**
Claim Name/Property	VMS East
Issue Date	2014/jan/02
Work Performed Index	Y
Old Good To Date	2017/oct/21
New Good To Date	2019/nov/04
Numbers of Days Forward	744
Area in Ha	18.27
Applied Work Value	$ 448.86
Submission Fee	$ 0.00
Title Numbers	**1035611**
Claim Name/Property	DOLLY FRACTION
Issue Date	2015/apr/22
Work Performed Index	Y
Old Good To Date	2017/oct/22
New Good To Date	2019/nov/04
Numbers of Days Forward	743
Area in Ha	18.26
Applied Work Value	$ 325.89
Submission Fee	$ 0.00

Financial Summary:

Total Applied Work Value:	$ 24996.73
PAC name	Gold Jubilee Capital Corp
Debited PAC amount	$ 0.00
Credited PAC amount	$ 3.27
Total Submission Fees	$ 0.00
Total Paid	$ 0.00

Related Summary:

Existing Work Program Event Numbers	5677627

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Confirmation

Recorder: MADDIN, CHARLES HUGH (116570) **Submitter:** MADDIN, CHARLES HUGH (116570)
Recorded: 2017/DEC/15 **Effective:** 2017/DEC/15
D/E Date: 2017/DEC/15

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

Event Number: **5677626**

Work Type: Technical Work
Technical Items: Geochemical, Geological, Geophysical

Work Start Date: 2017/JUL/29
Work Stop Date: 2017/AUG/09
Total Value of Work: $ 7857.80
Mine Permit No:

Summary of the work value:

Title Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
1041678	GOLDEN MICKEY	2015/FEB/01	2018/NOV/17	2019/DEC/07	385	547.44	$ 5774.35	$ 0.00
1041731	GM BOTTOM	2016/FEB/02	2018/NOV/21	2019/DEC/07	381	109.52	$ 1033.72	$ 0.00
1041734	GM TOP	2016/FEB/02	2018/NOV/21	2019/DEC/07	381	109.45	$ 1033.05	$ 0.00

Financial Summary:

Total applied work value: $ 7841.12

PAC name: Maddin, Charles Hugh (116570)
Debited PAC amount: $ 0.0
Credited PAC amount: $ 16.68

Total Submission Fees: $ 0.0

Total Paid: **$ 0.0**

Related Summary:

Existing work program Event numbers: 5658173

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Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: MADDIN, CHARLES HUGH (116570) **Submitter:** MADDIN, CHARLES HUGH (116570)
Recorded: 2017/DEC/15 **Effective:** 2017/DEC/15
D/E Date: 2017/DEC/15

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

Event Number: **5677627**

Work Type: Technical Work
Technical Items: Geochemical, Geological, Geophysical

Work Start Date: 2017/JUL/10
Work Stop Date: 2017/AUG/09
Total Value of Work: $ 10000.00
Mine Permit No:

Summary of the work value:

Title Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
1027569		2014/APR/17	2023/MAY/12	2024/Dec/01	569	73.13	$ 2276.19	$ 0.00
1035461	GLACIER SKEENA WEST	2014/APR/17	2023/MAY/12	2024/DEC/01	569	36.56	$ 1138.09	$ 0.00
1035460	GLACIER SKEENA NORTH	2014/APR/17	2019/NOV/04	2020/ApR/27	175	237.55	$ 1704.02	$ 0.00
1035604	VMS NORTH	2015/APR/22	2019/NOV/04	2020/APR/27	175	602.68	$ 2923.15	$ 0.00
1031466	GOLDEN MICKEY	2014/OCT/08	2019/NOV/04	2020/APR/27	175	54.81	$ 393.12	$ 0.00
1027728		2014/APR/21	2019/NOV/04	2020/APR/27	175	18.27	$ 131.04	$ 0.00
1039727		2015/NOV/03	2019/NOV/04	2020/APR/27	175	36.53	$ 174.68	$ 0.00
1032010		2014/NOV/03	2019/NOV/04	2020/APR/27	175	18.26	$ 131.00	$ 0.00
1035609	VMS SOUTH	2015/APR/22	2019/NOV/04	2020/APR/27	175	182.75	$ 886.37	$ 0.00
1035598	VMS East	2014/JAN/02	2019/NOV/04	2020/APR/27	175	18.26	$ 131.12	$ 0.00
1035611	DOLLY FRACTION	2015/APR/22	2019/NOV/04	2020/APR/27	175	18.26	$ 88.56	$ 0.00

Financial Summary:

Total applied work value: $ 9977.34

PAC name: Maddin, Charles Hugh (116570)
Debited PAC amount: $ 0.0
Credited PAC amount: $ 22.66

Total Submission Fees: $ 0.0

Total Paid: **$ 0.0**

Related Summary:

Existing work program Event numbers: 5668555

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Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: CAVEY, DOUGLAS ROSS (214893) **Submitter:** CAVEY, DOUGLAS ROSS (214893)
Recorded: 2017/DEC/15 **Effective:** 2017/DEC/15
D/E Date: 2017/DEC/15

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

Event Number: **5677656**

Work Type: Technical Work
Technical Items: Geochemical, Geological, Geophysical

Work Start Date: 2017/JUL/10
Work Stop Date: 2017/AUG/09
Total Value of Work: $ 243883.37
Mine Permit No:

Summary of the work value:

Title Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
385586	KL 2	2001/APR/03	2019/APR/05	2023/Jun/13	1530	400.00	$ 33508.20	$ 0.00
385587	KL 3	2001/APR/03	2019/OCT/05	2023/JUN/13	1347	500.00	$ 36885.25	$ 0.00
385592	LAVENDER 4	2001/APR/03	2018/OCT/05	2023/JUN/13	1712	450.00	$ 41068.57	$ 0.00
385602	LAVENDER 5	2001/APR/03	2019/OCT/05	2023/JUN/13	1347	500.00	$ 36885.25	$ 0.00
385604	LAVENDER 7	2001/APR/03	2019/OCT/05	2023/JUN/13	1347	375.00	$ 27663.93	$ 0.00
385591	LAVENDER 3	2001/APR/03	2019/OCT/05	2023/JUN/13	1347	300.00	$ 22131.15	$ 0.00
385603	LAVENDER 6	2001/APR/03	2018/OCT/05	2023/JUN/13	1712	500.00	$ 45631.75	$ 0.00

Financial Summary:

Total applied work value: $ 243774.10

PAC name: Smyth, Clinton
Debited PAC amount: $ 0.0
Credited PAC amount: $ 109.27

Total Submission Fees: $ 0.0

Total Paid: **$ 0.0**

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GEOCHEMICAL and GEOLOGICAL

ASSESSMENT REPORT

on the

KINSKUCH PROPERTY

Tenure No's: 385586, 385587, 385591, 385592, 385602, 385603, 385604, 1027569, 1027728, 1031466, 1032010, 1035460, 1035461, 1035598, 1035604, 1035609, 1039727, 1041678, 1041731, and 1041734

Stewart Area

Skeena Mining Division

NTS: 103P11

Latitude: 55° 38' 45.3"N; Longitude: 129° 21' 33.0"W

UTM (NAD83 – Zone 9): 477395E, 6166730N

Owner/Operator: OK2 Minerals Ltd

Authors: Dustin Perry, BSc. and Gayle Febbo, MSc.

December 14th, 2017

OREVISTA

exploration

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Appendices

Appendix A: Statement of Qualifications

Appendix B: Statement of Expenditures

Appendix C: Tenure Information

Appendix D: Sample Descriptions

Appendix E: Analytical Reports

Appendix F: Maps

Appendix G: ZTEM Geophysical Report

Figure	Description
1	Field photographs of Triassic and Jurassic sedimentary strata
2	Field photograph of Lower Hazelton Group conglomerate
3	Field photograph of Lower Hazelton Group volcanic rocks
4	Kinskuch plutonic rock phases of intrusion
5	Equal area stereographic projections of poles veins
6	Field photograph of Bonnie Breccia zone
7	Field photographs of hydrothermal veins
8	Field photograph of reverse fault

Map	Description	Scale
1	General Location	1:1,000,000
2	Tenure Information	1:75,000
3	Regional Geology	Not to scale
4	Property Geology	1:10,000
5	Alteration	1:10,000
6	Sample Locations	1:10,000
7	Geochemistry	1:10,000

Table	Description
1	Notable rock samples from sheeted qtz stockwork zone
2	Notable rock samples from Big Bulk

1.0 SUMMARY

The Kinskuch Property consists of 18 mineral claims covering 4,322 Ha in in northwestern British Columbia, approximately 50km southeast of Stewart and approximately 20km north-northeast of the village of Alice Arm. It lies within the Skeena Mining Division and is centered on 55° 38' 45.3" N Latitude, 129° 21' 33.0" W Longitude. Access to the property during the 2017 field season was by helicopter from the Kinskuch FSR near the outlet from Kinskuch Lake.

The property is located in an area of good infrastructure and resources. The town of Stewart has a helicopter base and access to many basic services. The cities of Terrace and Smithers are 310 km and 330 km away respectively, and can provide any resources required. The small community of Alice Arm and the abandoned town of Kitsault lie approximately 20 km south-southwest of the property. Kitsault is a 170 km drive from Terrace and is serviced with electricity through the BC Hydro grid.

The area has seen an extended exploration history dating back to approximately 1910. It includes the Dolly Varden, North Star, and Torbit past-producing mines, which operated in the Kitsault River valley at intermittent times from 1919 to 1959, and produced silver, lead, zinc, copper, and gold.

In 2001 and 2002 Teck Cominco conducted extensive surface exploration on the Big Bulk property, and in 2003, Canadian Empire Corp. drilled 11 diamond holes on the property. In 2008, Durango Capital Corp. drilled a number of diamond holes on the Big Bulk claim held by Dolly Varden Silver Corporation, and in 2009, Anglo Gold followed with another three ~700m deep diamond holes targeting chargeability anomalies detected in an IP survey carried out by Durango Capital Corp. in 2008.

LTC Holdings Inc. purchased the Big Bulk property in 2015 from Teck Cominco. Eight high quality orthophotographs and digital elevation models were produced using a DJI Phantom III quadcopter UAV (drone). 50 channel samples were also collected in areas which yielded high levels of gold or copper in historical rock sampling surveys.

The Big Bulk property in addition to the Golden Mickey and VMS claims were optioned by OK2 Minerals in 2016 and renamed the Kinskuch Property. 2016 work included preliminary geochemical sampling, mapping, and prospecting.

The Kinskuch property lies on the east limb of a large scale antiform gently plunging to the northwest known as the Mt. McGuire anticline. The part of the McGuire anticline covered by the property is a thick sequence of lower Jurassic Hazelton volcanic rocks with lesser sediments and subvolcanic intrusives.

This report summarizes the geochemical and geological program carried out from June to August of 2017. Orevista Exploration Consultants Ltd. was contracted to carry out a geological and geochemical program consisting of rock sampling, prospecting, and geologic mapping. Geotech was contracted by Helca Mining, Dolly Varden Silver, and OK2 Minerals to carry out a ZTEM airborne geophysical survey over their respective properties.

Work was conducted on Tenure No's: 385586, 385587, 385591, 385592, 385602, 385603, 385604, 1027569, 1027728, 1031466, 1032010, 1035460, 1035461, 1035598, 1035604, 1035609, 1039727, 1041678, 1041731, and 1041734 and totalled $293,882.37 (Appendix B and C).

2.0 INTRODUCTION

2.1 Property

The Kinskuch Property consists of 18 contiguous mineral claims (Appendix C) which cover 4,322 Ha in northwestern British Columbia (Maps 1 and 2). The property is located within NTS map sheet 103P/11 approximately 50km southeast of Stewart and approximately 20km north-northeast of the village of Alice Arm. It lies within the Skeena Mining Division and is centered on 55° 38' 45.3" N Latitude, 129° 21' 33.0" W Longitude.

The property is located on crown land owned by the Province of British Columbia and there is no foreseeable reason why surface access to the property will be revoked. The author is not aware of any known environmental liabilities or other significant factors that might affect mineral titles or the ability to perform work.

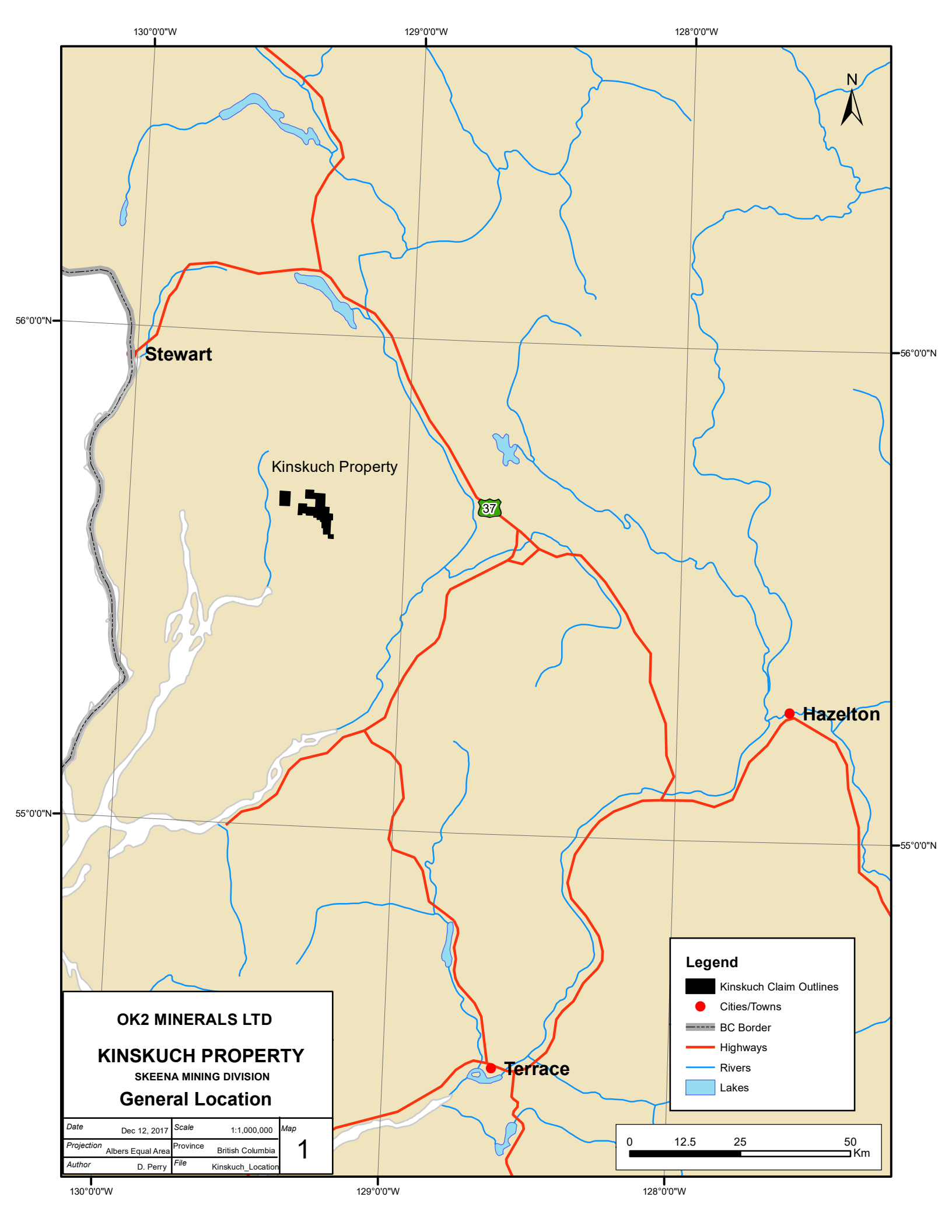
2.2 Accessibility

Access to the property during the 2017 field season was by helicopter the Kinskuch FSR located approximately 17km from the camp location. The weather in the Stewart-Alice Arm area is highly variable and caused delays on multiple occasions.

2.3 Physiography and Climate

The property lies in the Skeena coastal physiographic unit, which is characterized by rugged topography. Elevations on the property range from the Kinskuch Lake elevation of approximately 1100 meters to 2306 meters on Lavender Peak. Valleys are steep sided and vary from U to V-shaped. Many areas of the property are covered by glaciers, although their retreat is rapid based on photo analysis from previous years. Recently exposed areas are very rugged, have sparse alpine vegetation if any, and no trees. Vegetation in areas distal to the glaciers consists of spruce and willow.

The climate is coastal, with abundant rain from June to October. Temperatures can fluctuate strongly even during the summer, and access to the property can be hampered by low cloud and poor weather. Extraordinary accumulations of snow throughout the winter months can exceed 8 meters. Surface work such as geological, geochemical and geophysical surveys is limited to snow free months that range from approximately mid-June to early-October.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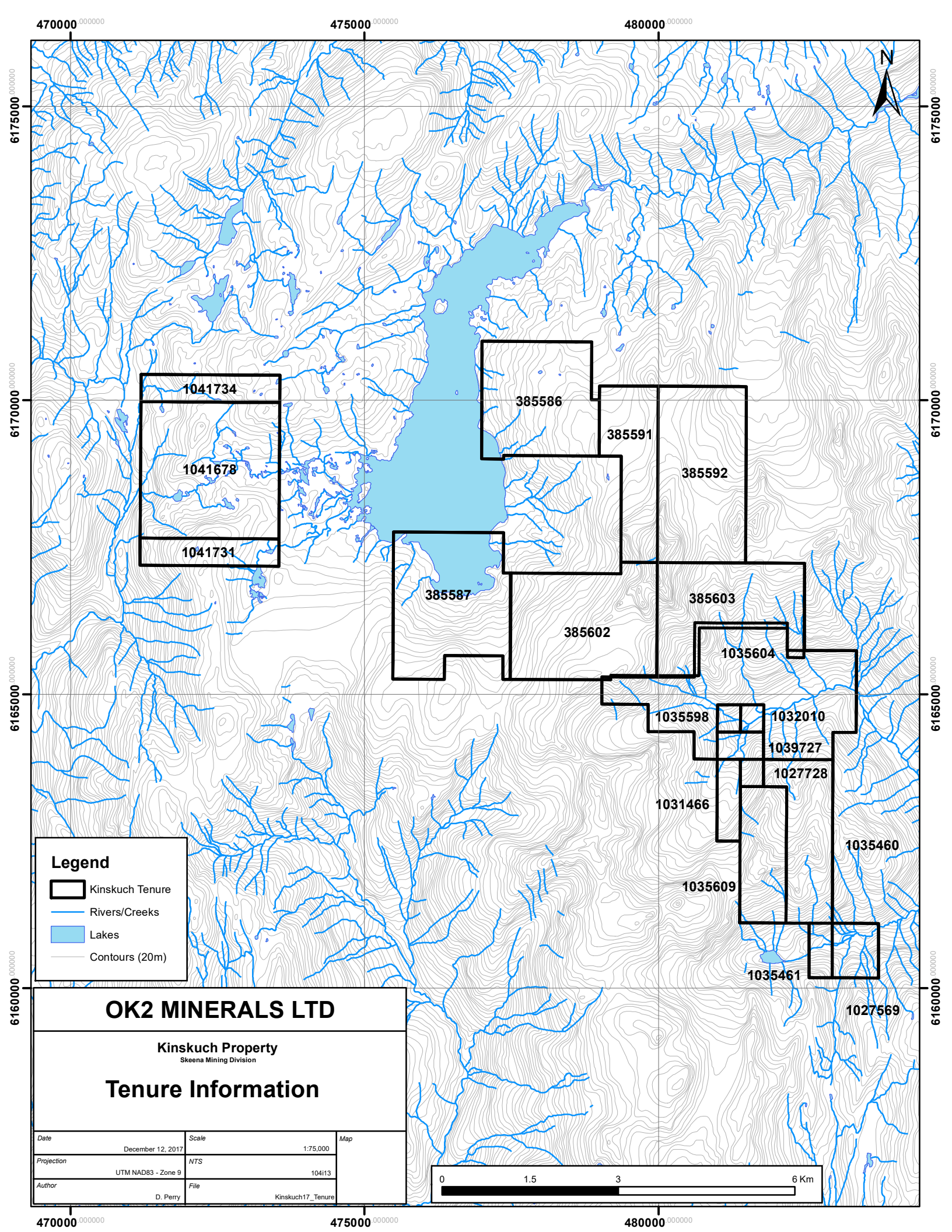
55°0'0"N
Stewart
Kinskuch Property
37
Hazelton
Terrace
Legend
Kinskuch Claim Outlines
Cities/Towns
BC Border
Highways
Rivers
Lakes
0
12.5
25
50
Km
OK2 MINERALS LTD
KINSKUCH PROPERTY
SKEENA MINING DIVISION
General Location
Date Dec 12, 2017
Scale 1:1,000,000
Map 1
Projection Albers Equal Area
Province British Columbia
Author D. Perry
File Kinskuch_Location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1039727
1027728
1031466
1035460
1035609
1035461
1027569
Legend
Kinskuch Tenure
Rivers/Creeks
Lakes
Contours (20m)
OK2 MINERALS LTD
Kinskuch Property
Skeena Mining Division
Tenure Information
Date
December 12, 2017
Scale
1:75,000
Map
Projection
UTM NAD83 - Zone 9
NTS
104i13
Author
D. Perry
File
Kinskuch17_Tenure
0
1.5
3
6 Km

2.4 Local Resources and Infrastructure

The property is situated approximately 50 km southeast of Stewart, population approximately 450, where basic services (accommodation, groceries, fuel, propane, some heavy equipment) and some labour are

available. From Stewart, the cities of Terrace and Smithers are 310 km and 330 km away respectively, and can provide any resources required. The small community of Alice Arm and the abandoned town of Kitsault lie approximately 20 km south-southwest of the property. Kitsault is a 170 km drive from Terrace and is serviced with electricity through the BC Hydro grid. There is no road access to Alice Arm.

3.0 HISTORY

The area has seen an extended exploration history dating back to approximately 1910[1]. Earliest recorded information dates back to provincial government Annual Reports from 1915. The primary area of exploration has been centered in the Kitsault River area with lesser exploration in the Lahte Creek-Illiance River valley, the Dak River area and the area surrounding Kinskuch Lake.

The Dolly Varden, North Star and Torbit mines are past-producing mines, which operated in the Kitsault River valley at intermittent times from 1919 to 1959, and produced silver, lead, zinc, copper and gold. These deposits were originally considered to be veins hosted along a tensional fault system but were later studied by Devlin and Godwin (1987) and interpreted to be an exhalative, stratiform deposit. The Kitsault River valley as well as the surrounding area saw extensive exploration for a number of metals during the early part of the 20th century.

Copper and gold mineralization was extensively explored in an area historically known as the Copper Belt, located west of the Kitsault River near its headwaters. A number of showings, such as the Homestake Ridge (now the Homestake Deposit), Vanguard Copper, Red Point, and Vanguard Gold are located in this area. Numerous other showings such as the Sault, Ace/Galena, and Wolf are all located in the Kitsault River/Kitsault Lake area.

The Homestake Ridge trend has seen numerous exploration programs of trenching, surface work, and underground development during the period from 1914 to 1939. Numerous programs involving prospecting, geological mapping, rock and soil geochemistry, geophysics, and diamond drilling have been carried out by Canex Aerial Explorations Limited, 196(?); Dwight Collison, 1964-1979; Newmont Canada, 1979-1980; S. Coombes, D. Nelles, and Cambria Resources Limited, 1986-1988; Noranda Exploration Company Limited, 1989-1991; Lac Minerals (Barrick Resources), 1994; Teck Corp., 2000; and Teck-Cominco, 2001.

[1] History up to 2009 has been summarised by Smyth (2016).

The Red Point prospect, also within the Copper Belt, was discovered during the 1910's and was subsequently explored by adits on the higher-grade copper prospects. The prospect was acquired by Dolly Varden Minerals Incorporated and was explored by geological, geochemical, and geophysical methods and was later trenched and drilled.

Sporadic exploration throughout the Kitsault River valley has been conducted over many of the known showings. Of note are the silver-lead-zinc deposits of the Dolly Varden, Wolf, Torbit, and Northstar deposits, which were explored during the period 1964 to 1990. These deposits have been explored by geophysical, geological, and geochemical methods and in some cases have been trenched and/or drilled.

South of Kitsault Lake, the Sault property was discovered in 1966 by Cominco Ltd. and was explored intermittently until 1990. The property has been described by Tupper and McCartney (1990), as referenced from company reports by MacRobbie, as mineralized carbonate deposits restricted to syn-sedimentary graben which acted as traps for local accumulation of carbonate, sulphate, and minor sulphide mineralization. Cominco (1984) and Oliver Gold Corporation and joint venture partners Aber Resources Limited and Tanqueray Resources Limited (1989) drilled the property and conducted geological, geochemical, and geophysical work.

The area of the Illiance River and Lahte Creek saw numerous discoveries of relatively small veins commonly hosted within shear structures with high silver values associated with lead and zinc mineralization. The area first received attention during the period from the early 1910's through the 1920's. Exploration activity increased again during the 1950's – 1960's, during which time numerous companies were active in the area. Hudson Bay Exploration and Development Co. explored this same area during 1980-1981 to explore the rhyolite hosted lead-silver float and occurrences, which were discovered originally in 1916 and were re-discovered in 1980. The occurrence is known as the Left Over showing. Exploration to the northwest of the Illiance River and southwest of Lahte Creek near Mt. McGuire was focused on a porphyry molybdenum deposit know as the Ajax.

Northwest of Lahte Creek in the area south and east of Kinskuch Lake copper showings were first explored in the 1930's. The area was sampled by Brittania Mines in 1939 and was drilled in 1955-1956 by Northwestern Explorations Limited, establishing a small reserve of a few million tones of 0.4% copper on the Bonnie zone. Forest Kerr Mines Ltd. conducted geological, geophysical, and diamond drilling during 1965. Cyprus Exploration Corp. explored the property geological, geochemical, and diamond drilling during 1966. In 1970 Ken Addison Mines ltd. conducted geophysical surveys and a limited diamond drill program. The property was restaked in 1979 as the Big Bulk and was mapped and sampled by Prism Resources in 1980. Procan Resources drilled five diamond drill holes in 1982. The property was again looked at in 1990-1991 by the joint venture partnership of Oliver Fold Corporation, Abner Resources Ltd., and Tanqueray Resources Ltd. The joint venture conducted extensive geological mapping, geochemical sampling, trenching, and prospecting. During 1989 the joint venture also carried out a regional survey. The 1991 program focused on the Big Bulk area and was primarily a blast trench, geological mapping, and prospecting program. The author's results and conclusions of the 1990-1991 programs suggest porphyry copper-gold deposit potential as evidenced by the alteration assemblage of the Big Bulk area.

In 2001 (Evans, 2002) and 2002 (Evans, 2003) Teck Cominco conducted extensive surface exploration on the Big Bulk property, an in 2003, Canadian Empire Exploration Corp. drilled 11 diamond drill holes on the property (Thurston, 2003). In 2008, Durango Capital Corp. drilled a number of diamond holes on the Big Bulk claim held by Dolly Varden (Smyth, 2009), and in 2009, Anglogold followed with another three ~700m deep diamond drill holes targeting chargeability anomalies detected in an IP survey carried out by Durango (Smyth, 2010).

LTC Holdings Inc. purchased the Big Bulk property in 2015 from Teck Cominco. Eight high quality orthophotographs and digital elevation models were produced using a DJI Phantom III quadcopter UAV (drone). 50 channel samples were also collected in areas which yielded high levels of gold or copper in historical rock sampling surveys (Smyth 2016).

The property in addition to the VMS and Golden Mickey claims were optioned by OK2 Minerals in 2016 and renamed the Kinskuch Property. The 2016 exploration program was designed to familiarize the current operators with the property in addition to mapping and prospecting new exposure due to glacial retreat.

4.0 GEOLOGY

4.1 Regional Geology

The Kinskuch property lies on the east limb of a large scale antiform gently plunging to the northwest known as the Mt. McGuire anticline. Situated near the western margin of the Bowser basin, the property is primarily located over lower to middle Jurassic volcanics and sediments deposited in a marine environment, as well as sub-volcanic intrusions. This sequence is collectively known as the Hazelton Group which consists of a well-mineralized sequence formed in an island arc environment. This sequence in the Kitsault area is bounded by Tertiary intrusives to the west and the marine-lacustrine Bowser to the east. The Hazelton Group in the Kitsault area has undergone west to east compression, which has resulted in asymmetric folding and thrusting, and produced only low grade greenschist metamorphism of the rocks (Evans, 2003).

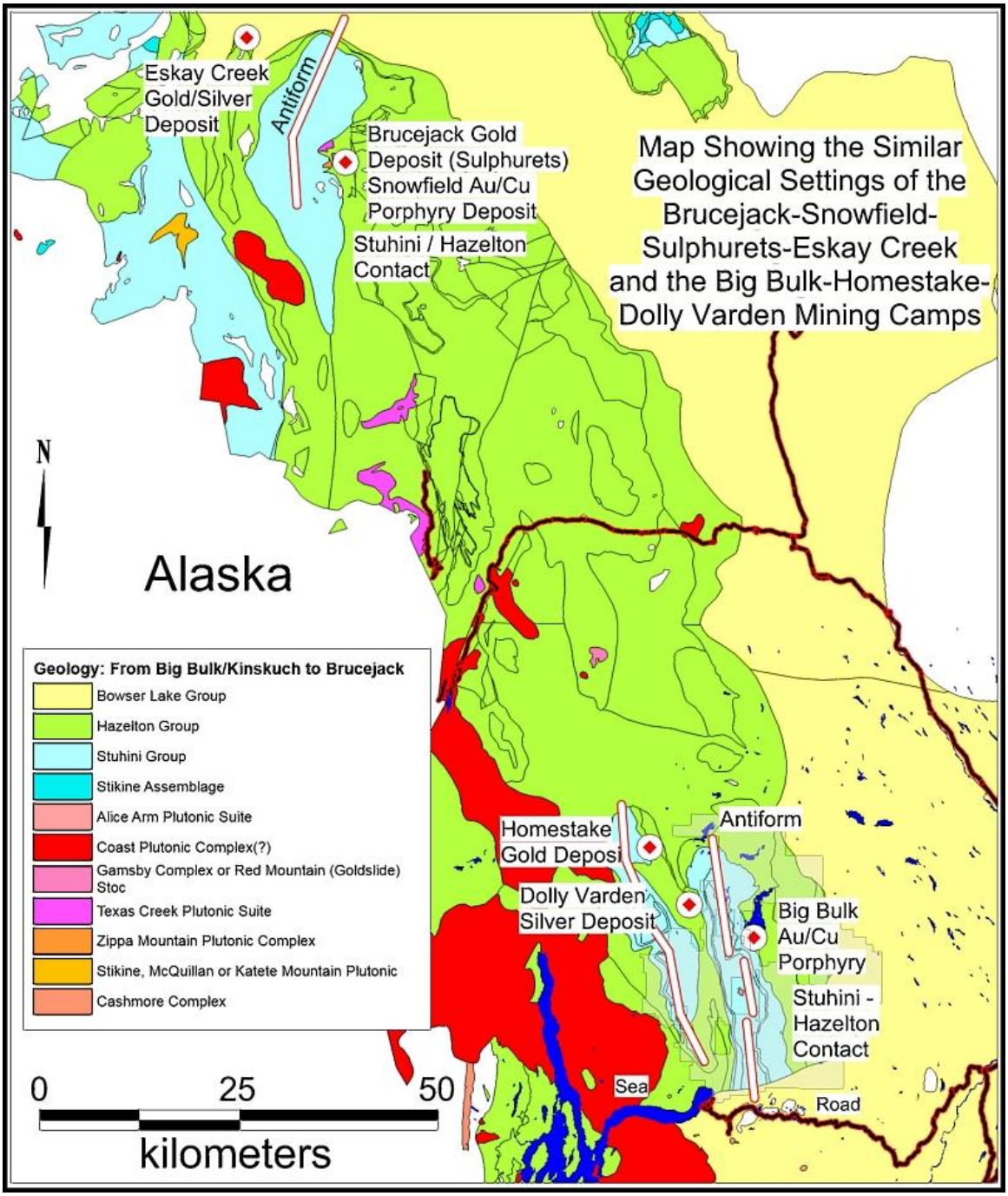
Coller (2008) provided evidence of rift inversion structures associated with the Mt. McGuire anticline, a possible alternative to the above-mentioned “asymmetric folding” interpretation of the larger structures in the area. If Coller’s interpretation is correct, it is another important aspect of similarity between the Mt. McGuire anticline and the economically important McTagg anticline (Nelson and Kyba, 2014) to the north near KSM.

The Kitsault area is the southern limit of a continuous belt of the Hazelton Group which hosts the highly profitable Eskay Creek VMS deposit. The Eskay deposit occurs in sediments overlying felsic volcanics at the top of the Hazelton volcanics.

Another system in the same stratigraphy that remains undeveloped is the Red Mountain deposit. The system is related to ~190mya Goldslide intrusions which are also present throughout the area including intrusions along the southern shore of Kinskuch Lake.

The Dolly Varden camp owned by New Dolly Varden Minerals Inc. is located in the Kitsault River valley approximately 20 km north of Alice Arm. Previous production from the Dolly Varden, North Star, and Torbrit mines totaled 19.9 million oz Ag and 11 million lbs Pb. Recent work (Delvin, 1987 and others) suggests this system is a possible VMS system.

Recent research (Kyba, 2014) has highlighted the possible role of the Stuhini/Hazelton unconformity in localizing mineral deposits. The proximity of that contact to the Kinskuch property is illustrated in Map #3.



Map 3 - Regional Geology

4.2 Property Geology

Introduction

In spring of 2017 a geological compilation map was generated from numerous other mappers in the area including Charlie Greig and Graeme Evans. In July and August, a focused remapping program was undertaken to re-interpret the alteration and plutonism. The area of remapping extended from approximately 475000mE to 478500mE and from 6166000mN to 6168000mN. Lithology descriptions here refer to remapped rocks and units such as Stikine assemblage chert and Upper Hazelton sedimentary rocks and felsic volcanic rocks are not included as part of this study. Refer to Maps 4 and 5 in Appendix F for geological and alteration maps of the property.

UTrSb: Upper Triassic Stuhini Group basalt

Basalt is the deepest strata mapped in this study and it outcrops in the western map area on the eastern hinge of the McGuire anticline and in the hinge area of two northwesterly trending antiforms west of Kinskuch Lake. The contacts of the basalt near Golden Mickey claims are northerly trending and the unit lacks bedding within a steeply east-dipping succession. Volcaniclastic basalt beds east of Golden Mickey trend variably easterly and northerly reflecting local fold axes trends. Near Kinskuch lake, in the hinge of a synform, orange-weathered clast-supported, polymictic basalt tuff breccia contains clasts up to 10 cm that range from aphanitic to faintly plagioclase-phyric and augite-phyric in a feldspar crystal tuff (Fig. 1A). Near Golden Mickey, in the eastern flank of the McGuire anticline, deep grey-green, quartz amygdaloidal, fine-grained, equant, augite- and olivine- phyric basalt flows are conformable with sedimentary rocks up section. This mafic unit grades stratigraphically upwards into hornblende porphyry and chert clast-bearing conglomerate of the lower Hazelton that outcrops in synformal areas west of Kinskuch Lake.

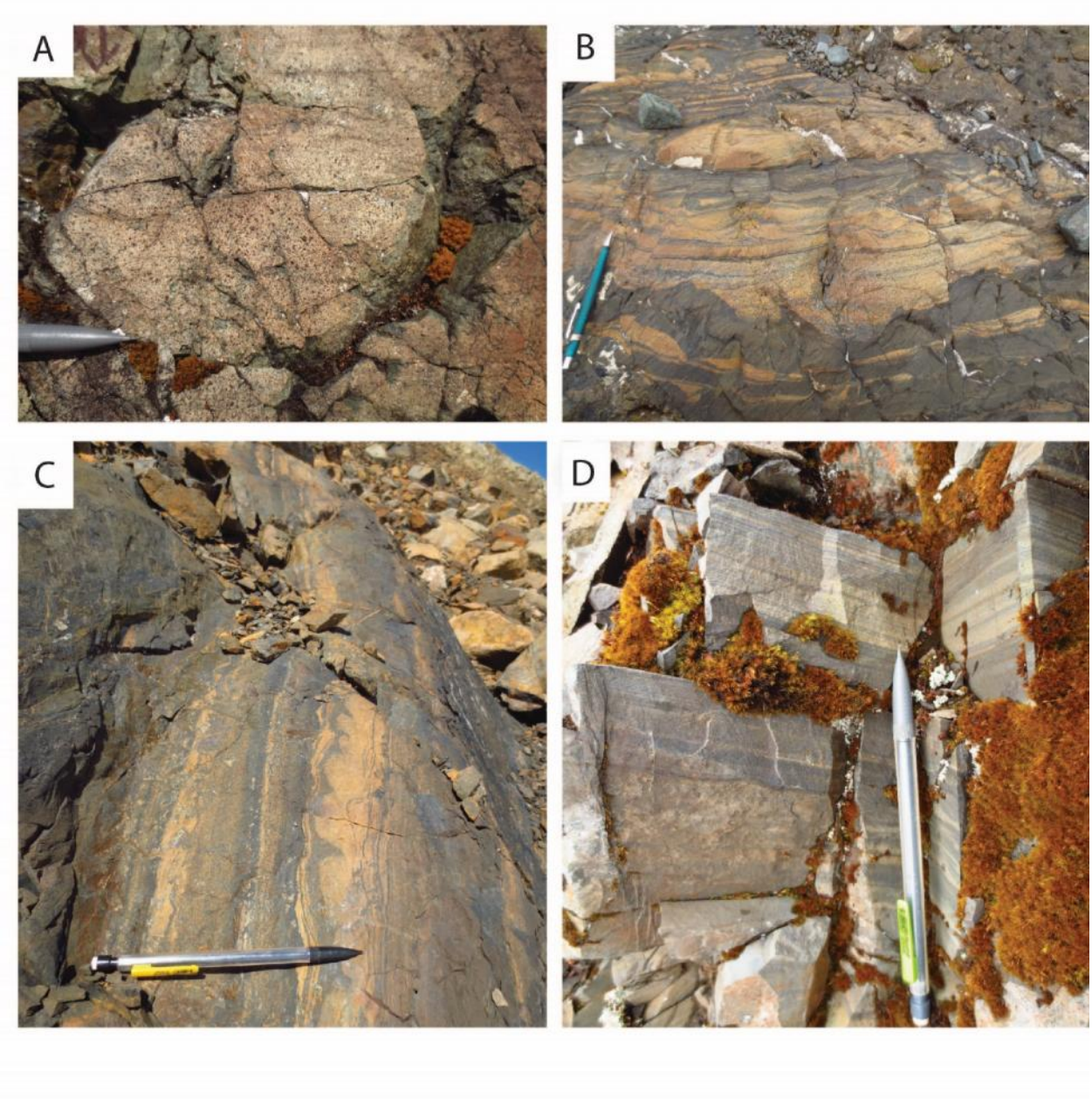


Figure 1. Field photographs of Triassic and Jurassic sedimentary strata. A: Characteristic equant, black augite phenocrysts in boulder clast of a basalt tuff breccia; 475365 E, 6170035 N (photo ID 3127). B: Orange-weathered sandstone with rhythmic bedded black siltstone dip steeply and young to the east (direction of pencil) and chert pebble conglomerate lenses defining flow channels; 474899 E, 6166567 N (photo ID 3089). C: Flame textures in silt and orange weathered sandstone indicate younging to the east, in the direction the pencil point; 475578 E, 6165826 N (photo ID 3702). D: Grey-black milimeter-centimeter scale upright beds of black silt and grey feldspathic sand < 1 mm diameter grains with subordinate quartz grains dip moderately east; graded beds and slumping textures indicate younging to the east, photo view to the northeast; 476921 E, 6170580 N (photo ID 3044).

UTrSsed: Upper Triassic Stuhini Group orange-weathering siltstone-sandstone

Stuhini Group sandstone-siltstone outcrops to the south and southwest of the Kinskuch plutonic rocks at relatively high elevations. Beds generally have northerly strikes, steep dips and young to the east with both upright and overturned beds. Rocks are charcaterized by orange-weathered sandstone layers interbedded

with rhythmic bedded black silt. Abundant eastward-younging indications are observed including normal grading, scours and flame structures (Fig. 1B). Interbeds of heterolithic, thin lenses of angular black chert pebble conglomerate are cut by diorite near the southwestern corner of Kinskuch Lake. The sedimentary rocks grade upwards into conformable successions of similar rhythmic bedded sand and silt with increased conglomeritic components. This in turn grades conformably into hornblende-phyric andesite clast-bearing, chert pebble conglomerate that is designated Lower Hazelton. The appearance of andesite volcanism is diagnostic of the Lower Jurassic timing and warrants a Hazelton Group designation (pers. comm. B.I. van Straaten). Beds are cut at a high angle by Phase 1 diorite.

UTrS-LJHsed: Upper Triassic-Lower Jurassic transitional sequence

Outcropping on both sides of Kinskuch lake and up section of both the rhythmic orange-weathered siltstone-sandstone and the volcaniclastic basalt is a transitional sequence of sedimentary rocks. The sedimentary rocks are conformable with underlying and overlying strata, have northerly to northwesterly strikes and steep to moderate dips that young eastward. The beds are distinctly grey-black, have rhythmic silt-sand interbeds (Fig. 1D), and abundant eastward-younging evidence in scours, normal graded beds and flame textures. The strata is not easily designated Triassic or Jurassic and may reflect a conformable, gradational transition from Stuhini to Hazelton Group deposition.

LJrHss and LJrHcg: Lower Jurassic sandstone and conglomerate

West of Kinskuch lake are broad outcrops of Lower Jurassic sandstone and conglomerate that reflect repeated stratigraphy in several anticline-syncline sets. Bedding strikes northwesterly to northeasterly, dips easterly (east limbs) and westerly (west limbs) with predominantly eastward-younging. Sandstone, pebbly sandstone and clast-supported conglomerate units are made up of angular to subrounded black mudstone clasts, white and black chert clasts, limestone clasts, hornblende-phyric volcanic clasts and rare augite-phyric volcanic clasts near the base of the sequence (Fig. 2). The matrix to the siliciclastic rocks is composed of feldspar grains, fine lithic fragments of comparable composition to the clasts and can effervesce in some of the matrix. Outcrops of >10 m across chert within the conglomerate-sandstone are surrounded by angular, clast-supported, monomictic, chert sedimentary breccia in a matrix of sandstone that grades into subrounded heterolithic, chert pebble conglomerate. These outcrops are interpreted to be large blocks of the underlying Triassic Stuhini Group chert that deposited into the basin during Jurassic sedimentation. These siliciclastic rocks of the Lower Hazelton Group appear to conformably overly basalt flows and breccias and are cut in some areas by Early Jurassic hornblende-diorite. The augite-phyric basalt clasts and the chert clasts are interpreted to be sourced from Triassic Stuhini Group and older rocks and the hornblende-phyric andesite and limestone clasts are interpreted to be sourced from the Lower Jurassic Hazelton Group rocks.

Figure 2. Field photograph of Lower Hazelton Group clast-supported conglomerate with black chert cobbles, hornblende porphyry volcanic clasts, limestone clasts and sedimentary lithic clasts; 474989 E, 6169868 N (photo ID 3170).

LJrHafl, LJraxt, LJralpt and LJrHatbx: Lower Jurassic Hazelton Group andesite flow, crystal tuff, lapilli tuff and tuff breccia

The majority of the Lower Jurassic Hazelton Group andesite rocks outcrop at high elevations south, east and northeast of Kinskuch lake. Narrower horizons of andesite flow and lapilli tuff outcrop west and north of Kinskuch lake overlying Lower Jurassic sandstone and conglomerate. Bedding in the unit is defined by narrow tuff and mudstone lenses within the coarser volcanic rocks and eutaxitic foliation such as fiamme clast alignment. Beds generally strike north to northeast and dip moderately to the east, generally shallower than the underlying sedimentary strata. Clasts are monolithic hornblende-feldspar porphyritic volcanic and can be welded, pumicious clasts in a matrix of angular hornblende and feldspar crystal tuff (Fig. 3). The deposits generally contain >50% clasts that are angular and blocky-equant in shape. Most of these deposits contain clasts in excess of 1 m that are interpreted to be block and ash flows due to the blocky shape and large size of the clasts and the tuffaceous matrix. The diorite plutonic phases and the andesite strata are mutually cross-cutting and appear to indicate that volcanism preceded and post-dated the phases of intrusion described here. For example, thin deposits of andesite lapilli tuff are cut by Phase 1 diorite west of Kinskuch lake. At higher elevations south and east of the lake, the tuff breccia cuts Phase 1 and 2 but is cut by Phase 3 in other areas locally. Volcanic deposits up stratigraphy (east) of the Bonnie Breccia contain hydrothermal

lithic fragments interpreted to indicate eruption and deposition in the latest Phase 2 stage. The lower levels of andesite volcanism are overprinted by QSP alteration events, whereas upper levels are only overprinted by epithermal silica veins and clay alteration that is low in pyrite. Biotite phenocrysts in unaltered, higher levels of the andesite tuff breccia can be observed, this may reflect volcanism related to the Phase 4 biotite monzonite intrusions also. Hence, volcanism precedes Phase 1 plutonism and is clearly identified at the lastest stages of Phase 2, Phase 3 and Phase 4.

Figure 3. Field photograph of characteristic Lower Jurassic Hazelton Group volcanic rocks. Clast-supported andesite tuff breccia with angular, equant hornblende-plagioclase porphyritic clasts in tuffaceous matrix, 476844 E, 6165825 N (photo ID 3668).

Figure 4. Kinskuch plutonic rock phases of intrusion. A: Phase 1 diorite is green, medium-grained, crowded, magnetite-hornblende- diorite porphyry overprinted by pervasive propylitic calcite-epidote-chlorite-pyrite-chalcopyrite alteration. 475063 E, 6166399 N (photo ID 3082). B: Phase 2 synmineral hornblende diorite contains quartz-chalcopyrite vein xenoliths that are cut by quartz-chalcopyrite sheeted quartz veins and pervasive chlorite-quartz-magnetite alteration; 476094 E, 6167052 N (photo ID 3271). C: Phase 3 green, medium-grained, crowded, hornblende diorite porphyry is overprinted by quartz-sericite-pyrite-chlorite (QSPC) alteration; 477715 E, 6166876 N (photo ID 3455). D: Xenolith clast of sheeted quartz veins (SQV, Phase 2) contained within Phase 3 hornblende diorite porphyry overprinted by quartz-chlorite-pyrite alteration; 477926 E, 6166916 N (photo ID 3346). E: Phase 4 monzonite is green, medium-grained, with 1-5 mm pink euhedral K-feldspar and green hornblende phenocrysts in equigranular hornblende-quartz-K-feldspar-plagioclase groundmass; 476441 E, 6166597 N (photo ID 3692). F: Flowbanded contact zone of Phase 4 monzonite with internally stockworked Phase 3 hornblende diorite xenolith clasts, 476168 E, 6166722 N, (photo ID 3113).

EJrKdrt P1: Early Jurassic Kinskuch diorite porphyry Phase 1

The earliest diorite plutonism in the Kinskuch area defines a body that measures nearly 6 km in the north-south axis and over 4 km in the east-west axis. The intrusion outcrops on the southwest, south and southeast side of Kinskuch lake and can be identified on numerous islands in the southern half of the lake. The intrusion can be flow banded at contact zones and trachytic textures can be observed in narrower intercepts of the intrusion. The porphyry is crowded, medium-grained, hornblende-plagioclase-phyric diorite porphyry (Fig. 4A). Plagioclase ranges in abundance from 15-45% and is typically 1-6 mm in length; hornblende ranges in abundance from 5-25% and is typically 1-4 mm in length within an aphanitic groundmass. In contact zones, xenoliths of sedimentary strata are common. The hornblende diorite cuts Stuhini Group basalt and sedimentary strata as well as Basal Hazelton sandstone and conglomerate. In contact zones the diorite is overprinted by propylitic and endoskarn assemblages. The Phase 1 diorite is overprinted by all porphyry alteration assemblages including propylitic, albitic and QSP. The intrusion is unconformably in contact with andesite volcanic rocks of the Lower Hazelton at high elevations and it is also cut by Phase 2, 3, and 4 plutons in its core.

EJrKdrt P2 and sqz: Early Jurassic Kinskuch diorite porphyry Phase 2

The second phase of diorite plutonism (Phase 2) extends ~2 km east-west and 0.5 km north-south inboard of Phase 1 and outcrops as isolated enclaves. The intrusion is of comparable composition and texture to Phase 1and is distinguished by: 1) the presence of Phase 1 diorite porphyry intrusion breccia clasts, 2) clasts and contact zones with albite altered Phase 1 diorite, 3) synmineral timing with respect to sheeted quartz veins and Stage 1 copper mineralization. In high volume quartz-chalcopyrite stockwork zones, early dismemberment, disarticulation and quartz vein xenoliths can be observed in this phase of plutonism that are in turn cut by in-tact quartz-chalcopyrite sheeted to stockwork veins (Fig. 4B). The cross-cutting relationship with Phase 1 and the synmineral timing warrant a unique phase. The intrusion is cut on all sides by Phase 3 plutonism, is inferred to be cut by Phase 4 plutonism and is overprinted by QSP alteration.

The sheeted quartz vein (SQV) zones are emplaced in and contemporaneous with Phase 2 diorite defining a discontinuous east-west surface trace of ~ 2 km and a discontinuous width of 500 m. The SQV body is defined by >15% by volume quartz-chalcopyrite veins, high chalcopyrite:pyrite ratios and predominantly subparallel vein geometries that strike west to southwest and dip steeply northwest (Fig. 5B). Vein textures in all examples include centerline sulphide mineralization in veins as well as intense disseminated chalcopyrite in the diorite.

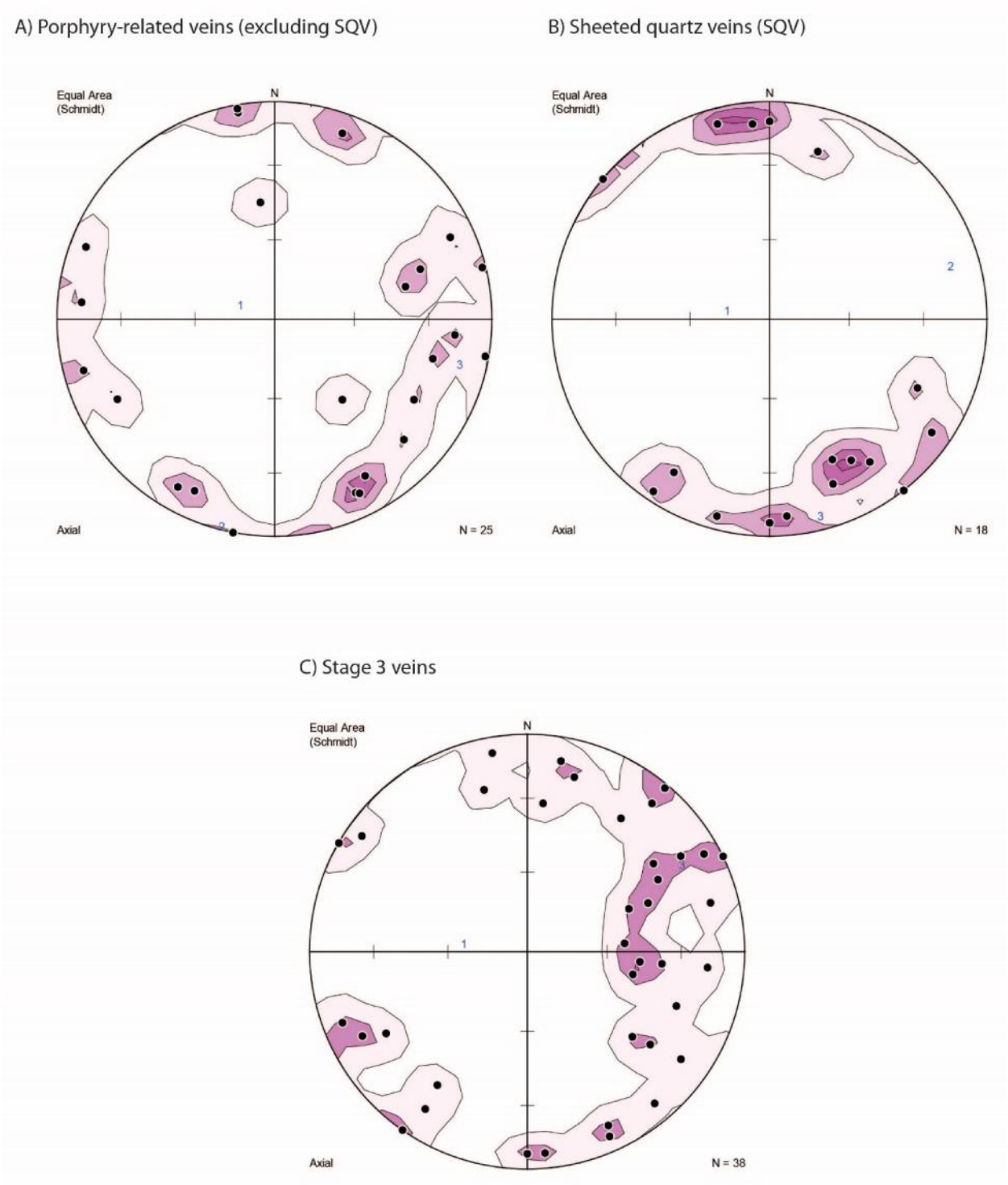


Figure 5. Equal area stereographic projections of poles veins for: A) all porphyry-related veins excluding the sheeted quartz veins, B) Sheeted quartz veins, and C) Stage 3 veins.

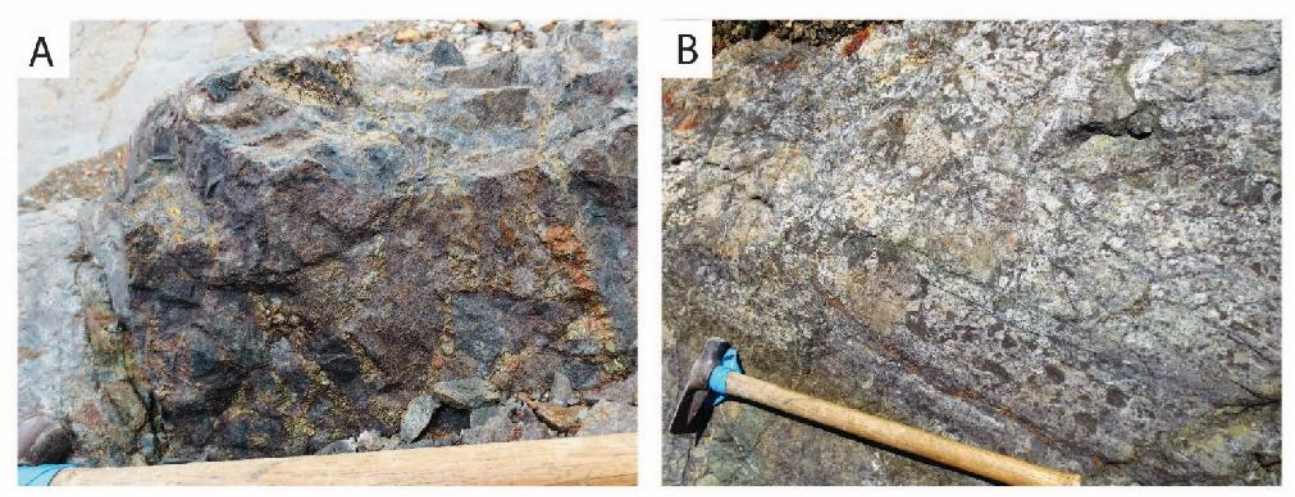


Figure 6. Field photograph of Bonnie Breccia zone. A: Root expression in Bonnie zone contains angular diorite clasts with K-feldspar-albite-epidote altered rims and matrix healed with chalcopyrite-epidote-chlorite; 477074 E, 6,167141 N (photo ID 3341). B: Typical breccia texture in East Bonnie zone contains heterogeneous hydrothermal altered clasts of diorite porphyry (e.g. silica-, albite-, chlorite-altered) and sulphide clasts in a groundmass of diorite porphyry; 477899 E, 6166887 N (photo ID 3349).

EJrKbx: Early Jurassic Kinskuch suite 'Bonnie Breccia' pipe

The deepest expression of the Bonnie Breccia is in the Bonnie zone itself where it cuts Phase 1 and 2 diorite. The breccia extends narrowly (< 100 m wide) east for > 1 km up to the volcanic carapace at the paleosurface in Bonnie East. The Bonnie Breccia has highly variable componentry and contains clasts of silica-altered diorite porphyry, albite-altered diorite, pyrite-chalcopyrite clasts, quartz vein fragments, and sheeted quartz vein clasts (Fig. 6A and B). Groundmass material is predominatly magmatic diorite porphyry and in some areas (i.e. the Bonnie zone) a higher hydrothermal component exists where locally chalcopyrite-pyrite-chlorite comprises the matrix (Fig. 6A) and in other areas k-feldspar-chalcopyrite-pyrite heals the breccia. The easternmost outcrops of the breccia contain unconsolidated andesite porphyry clasts that are interpreted to indicate eruption. The Bonnie Breccia cuts Phase 1 and 2 diorite porphyry and is overprinted locally by higher temperature quartz-chalcopyrite-pyrite porphyry veins, milky white quartz-barite-chalcopyrite-sphalerite-galena veins and cut by Phase 3 diorite to the south, east and west. In many areas only large xenoliths of the breccia body remain surrounded by Phase 3. The breccia grades eastwards, towards the paleosurface, into volcaniclastic maar deposits that contain quartz vein clasts. The narrow width and expression at the paleosurface are consistent with the interpretation of an elongate diatreme breccia that grades from magmatic-hydrothermal in the root zones up into an eruptive sequence at the paleosurface.

EJrKdrt P3: Early Jurassic Kinskuch diorite porphyry Phase 3

The third phase of diorite plutonism outcrops inboard of Phase 1 and has an elongate east-west geometry that measures ~3 km easterly with a width of ~1 km. The intrusion is crowded, medium-grained, hornblende diorite porphyry (Fig. 4C) with somewhat finer-grained contact zones similar to the first phase of intrusion. The intrusion likely represents multiple plutonic events and is distinguished as a bracket in hydrothermal timing that is post-Stage 1 (propylitic, potassic and albitic alterations) and pre-Stage 2 (QSP alteration) described below. Phase 3 clearly cuts the copper-rich quartz stockwork and sheeted quartz vein zones of Stage 1 (Fig. 4D) and is overprinted by widespread quartz-sericite-pyrite (QSP) alteration with very high pyrite concentrations (5-15%).

EJrKmnz P4: Early Jurassic Kinskuch monzodiorite to monzonite porphyry

The fourth phase of plutonism includes a larger body of predominantly equigranular, phaneritic monzonite as well as numerous finer-grained, biotite-bearing, hornblende-feldspar porphyry plugs that are interpreted to be temporally related or possibly younger plugs of monzodiorite to monzonite composition.

The equigranular monzonite outcrops immediately south of Kinskuch Lake and is in contact with Phase 3 diorite on all sides. The intrusion is east-west flow foliated in the contact zones and is composed of approximately equal amounts of medium-grained plagioclase and K-feldpsar, lesser quantities of hornblende and biotite, and < 5% primary quartz (Fig. 4E). The monzonite is distinguished from other phases of diorite intrusion by the coarser grain size of the groundmass, equigranular texture and the presence of primary quartz, pink K-feldspar and biotite not observed in the first three phases of diorite. The monzonite cuts Phase 3 diorite (Fig. 4F) and quartz-barite-chalcopyrite-sphalerite-galena veins and is cut by widespread rusty orange ankerite veins. Historic higher grade samples taken in the monzonite were found to be xenoliths of internally stockworked Phase 3 and xenoliths of mineralized quartz-barite veins.

Several plugs that measure < 500 m across of biotite-hornblende monzodiorite-monzonite outcrop in the south and east of Kinskuch lake. These intrusions are fine- to medium-grained biotite-hornblende-feldspar porphyritic in an aphanitic groundmass that may represent monzodiorite to monzonite compositions. The contact zones of these intrusions are mostly identified by abrupt loss of phyllic alteration and the appearance of primary biotite. The plugs cut all earlier phases (1-3) of intrusion and cut lower andesite volcanic strata. The presence of biotite phenocrysts in volcanic strata may indicate that some of these plugs were volcanic feeders. The cross-cutting relationship between the equigranular monzonite and these plugs is unclear, they may reflect satellite intrusions to the monzonite or potentially shallower, finer-grained penetrations of the larger body.

Edrt: Eocene diorite dikes

Eocene diorite dikes define swarms west of Kinskuch lake and outcrop in low abundance south of the lake. The dikes tend to be subvertical, have northerly to northeasterly trends and very sharp boundaries with wall rocks. The diorite dikes are composed of medium-grained plagioclase phenocrysts that typically form glomerocrysts of subhedral grains up to 50% of the rock and hornblende phenocrysts up to 5% with traces of primary magnetite and vesicles at margins. Rock texture ranges from nearly aphanitic, porphyritic and bi-modal porphyritic. Late diorite dikes cut Triassic and Jurassic strata and all intrusions on the property.

Hydrothermal evolution

Stage 1 introduces abundant copper-gold stockwork (Fig. 5A and B; Fig. 7A and B) with core potassic, albitic and propylitic alteration assemblages. This stage is correlated with very high quartz volumes and probably was emplaced related to the Phase 2, synmineral diorite. To the west of the altered zone, stockwork textures are highly irregular and disarticulated where they contain centerline sulphides with K-feldspar. To the east (i.e. Bonnie East), the stockwork bodies have slightly more planar vein geometries, are commonly banded in addition to containing centerline suphide, and can contain covellite in addition to chalcopyrite. Representative samples from the sheeted quartz areas can comonly exceed copper grades of 1 %. Stage 1 alteration extends several kilometers laterally as propylitic and albitic assemblages that flank the core assemblages. The youngest copper-gold event and potassic alteration event is marked by mineralization

and K-feldspar alteration in the roots of the Bonnie Breccia that cuts and is cut by high volume quartz stockwork.

Stage 2 comprises extremely high pyrite:chalcopyrite ratio mineralization with phyllic assemblages that include QSP (quartz-sericite-pyrite) and QSPC (quartz-sericite-pyrite-chlorite). These alteration assemblages are spatially correlated with low copper grades, typically < 0.1%, high percentages of pyrite (10-15%) and rarely contain phaneritic chalcopyrite. The phyllic assemblages clearly overprint high volume stockwork vein and Phase 2 plutonism. Phase 3 plutonic rocks intrude as an intermineral phase between Stage 1 and Stage 2 hydrothermal events. Most phyllic alteration assemblages are spatially correlated with the Phase 3 diorite.

Stage 3 hydrothermal activity includes silica flooding in structurally controlled quartz healed fractured zones, breccias and vein networks (Fig. 7C and D) that introduce higher grade Au-Cu-Pb-Zn. The silica alteration associated with this event is normally constrained to within 1-2 m of the veins. Vein and breccia zones can extend in length some 10-50 m and are typically 10 cm to 1 m in width. Breccia clasts are angular and can be lined with euhedral quartz growth from the clast margins and vein walls. Veins are composed of characteristic milky quartz that can be banded, chalcedonic, have open space growth and ranges anhedral to euhedral. These textures are consistent with an interpretation of epithermal, shallow levels of emplacements. In addition to quartz, the veins also contain barite, calcite, sphalerite, galena, chalcopyrite and pyrite. Veins are subvertical and strike northeast to northwest (Fig. 5C). The veins cut Phase 3 diorite and are cut by monzonite. The most significant mineralization associated with this event is in the southeastern Kinskuch lake area and in Bonnie East hosted in Phase 3 diorite.

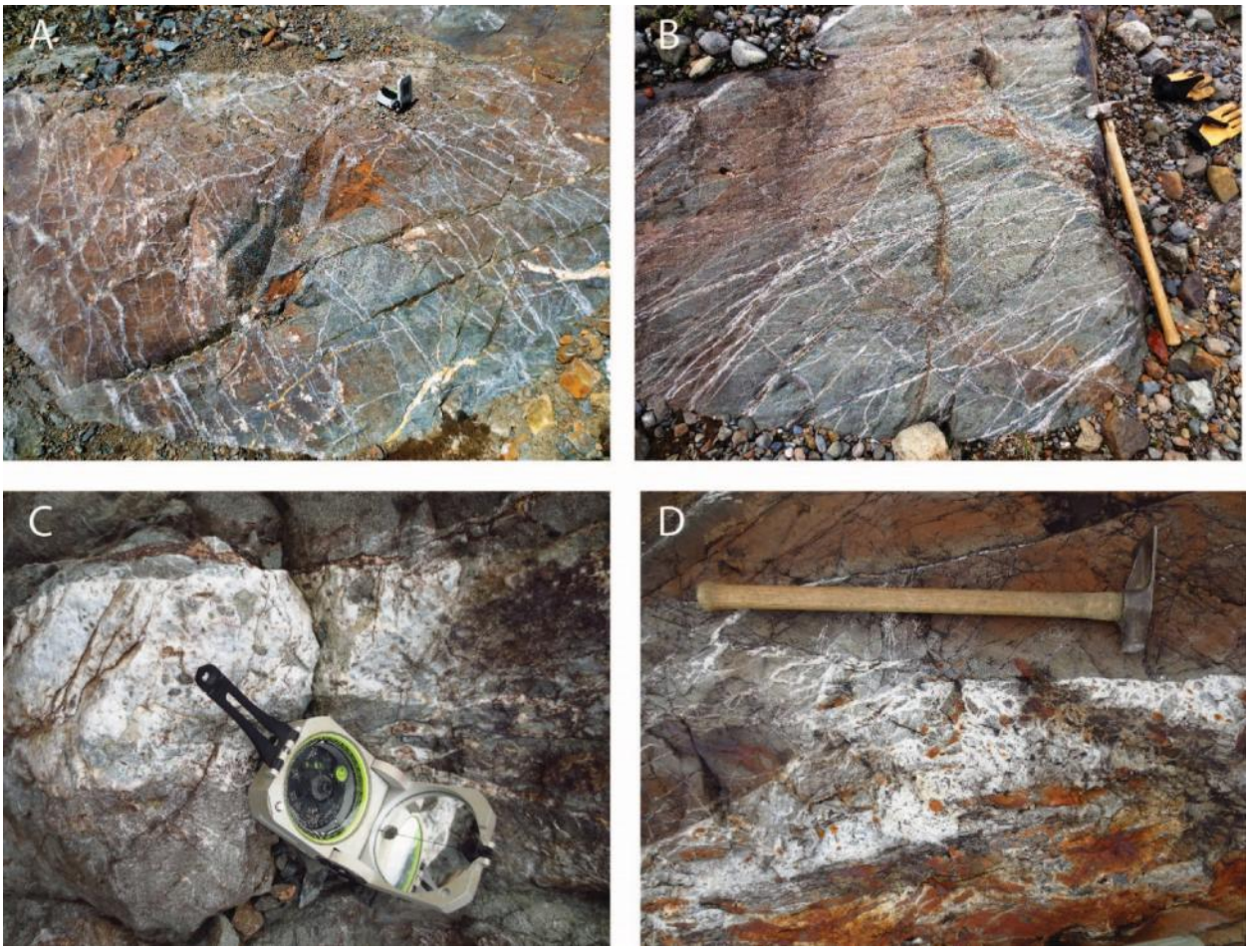


Figure 7. Field photographs of hydrothermal veins. A: Moderate northeast-dipping sheeted veins from the East Bonnie zone contain centerline chalcopyrite-pyrite-magnetite in veins in deep green chlorite-quartz-magnetite altered hornblende diorite; 477881 E, 6166849 N (photo ID 3354). B: Sheeted quartz-chalcopyrite veins strike north-south and dip moderately west hosted in Phase 2 magnetite-chlorite-quartz-chalcopyrite altered diorite; 476110 E, 6167067 N (photo ID 3285). C: Milky quartz heals angular breccia with manganoan carbonate at the margins and disseminated chalcopyrite-pyrite in matrix; 477006 E, 6166741 N (photo ID 2424). D: Breccia clasts are rimmed by euhedral, open-space growth milky quartz grains with interstitial pyrite; 477255 E, 6166890 N (photo ID 2418).

Faults

Two prominent faults are identified in the map area that cut altered rocks: 1) a northeasterly trending, east-vergent thrust fault with dip variation along trend that cuts and offsets the altered rocks near the Nickie zone and 2) a subvertical north-northeasterly trending dextral strike-slip fault that cuts the altered rocks in the Seabee zone.

Compressional features are distributed throughout the altered rocks as close-spaced (<50m), brittle oblique reverse faults with interpreted minor movement (<50 m). Faults are typically <20 cm wide brittle cataclasites with sigmoidal vein clasts (Fig. 8). Fault zones range from subvertical to moderate dips with northerly, northeasterly and northwesterly trends. The majority of fault zones indicate reverse dip-slip movement, typically with top-to-the-east and oblique strike-slip movement of both dextral and sinistral. It

is common to identify both dextral and sinistral strike-slip movement along one fault zone that may reflect fault reactivation.

Figure 8. Field photograph of reverse fault with 5cm wide cataclastic deformation zone containing reverse kinematics defined by rotated, sigmoidal vein fragments, photo view northwest; 477934 E, 6166940 N (photo ID 3344).

Folds

All strata and plutonic rocks on the property are folded by north-northwest and northeast trending folds except for the Eocene diorite dikes. Fold wavelengths are generally > 500 m and result in repeated stratigraphy, especially west of Kinskuch Lake. The folds are interpreted to be parasitic folds to the McGuire anticline to the west.

Discussion

Porphyry tilt

The porphyry system is interpreted to be tilted ~90 degrees to the east due to the following evidence:

1) Strata to the west, south and east of the intrusion indicate subvertical, eastwards-younging.
2) Vein textures grade from anastomosing, irregular in the west up into banded veins with sharp boundaries.

3) The presence of a volcanic carapace to the east that contains clasts of erupted quartz vein fragments.
4) The Bonnie Breccia componentry grades from internally stockworked clasts in the west with a magmatic intraclast material to cognate volcanic clasts in the east with tuffaceous material, near the paleosurface.
5) Stage 1 stockwork veins grade from K-feldspar-bearing higher temperature textures in the west, root zone, to banded and covelite-bearing, lower temperature textures in the east, upper extension.

Potassic alteration and the core zone

Previous workers distinguished only one intrusion in the Big Bulk area making the interpretation of the core zone of the porphyry impossible. This study separates four separate intrusions that overlap in time with hydrothermal activity and clarify the location of the core target area within the system. The Phase 4, post-mineral monzonite intrusion was previously interpreted as the potassic core to the system due to the presence of pink k-feldspar phenocrysts and K-feldspar-bearing veins that are devoid of copper. This study shows that no significant mineralization overprints the monzonite except where it contains xenoliths. Furthermore, the monzonite also truncates polymetallic veins of Stage 3 making it the poorest mineralized rock on the property. Drill holes that collared in the monzonite returned results consistent with this interpretation.

This study correlates surface high copper and gold in historic rock samples to lie within zones of sheeted quartz veins that strongly resemble the Mitchell-Snowfield mineralization style. The vertical and lateral extent of the original stockwork body ~1.5 km is of comparable scale to the vertical extent of Mitchell-Snowfield as well. The interpretation of the porphyry tilt allows drillable access to root zones of the system that is normally not possible.

5.0 2017 Geochemical Program

5.1 General

The 2017 geochemical program covered all three target areas within the Kinskuch Project: the Golden Mickey, Big Bulk, and the VMS claims. Minimal sampling was completed on the Golden Mickey but field crews did visit a historic adit that displayed mineralization with similarities to the Dolly Varden camp. Work on the Big Bulk area consisted of filling in gaps in historic sampling, sampling areas of recent exposure, and characterizing the geochemical signatures of the different phases of plutonism so that historic drill results could be reinterpreted given the new geological interpretations. The work completed on the VMS claims was less that planned due to inclimate weather for flying during the time scheduled to complete that portion of the program. Field crews were able to visit the Lahte Creek and sample

5.2 Sampling Procedures and Analytical Methodology

Rock sampling consisted of representative grab samples taken with rock hammer and placed in plastic ore bags. Stream sediment samples were collected from fine silt within prospective drainages in the VMS area of the claim package. They were taken with small spaces and placed into Hubco fabric bags. within Assay analysis was conducted by SGS Mineral Services in Burnaby, BC. Rock and silt samples were analyzed by the GE_FAA313 and GE_IC14A methods. "FAA313" analyses a 30g sample split, analyzing the sample by fire assay (for gold only) with an AA (atomic absorption) finish. "IC14A" utilizes a 0.5g sample split by leaving it in Aqua Regia and analyzing the solution by ICP-MS.

5.3 Results

Refer to Appendix D, E, and F for sample descriptions, assay results, and maps of sampling results.

Big Bulk:

The 2017 program was designed to test a new working model proposed by Orevista geologists in conjunction with a BC Geological Survey (BCGS) and University of British Columbia (UBC) study on the Big Bulk porphyry Cu-Au system. Historic work has assumed that the Big Bulk porphyry system was an upright and a lower tonnage alkalic porphyry system. New interpretations indicate that the system is tilted with a surface expression of over 3.5 Km. Given the dimensions of the system as well as the dioritic host rocks, Orevista geologists believe the target is a much larger calc-alkaline porphyry system.

Given that the porphyry system is tilted on its side, deeper core zone alteration and mineralization normally only tested with deep drilling is present at surface. Sampling and mapping was focused on identifying and characterizing core zone alteration consisting of sheeted quartz veins with disseminated and vein hosted chalcopyrite within a chlorite altered diorite host. Previous sampling on the properly largely targeted what is now believed to be late mineral intrusive bodies and downgraded phyllic alteration zones. New sampling in these regions of interest has returned very promising results over 2.25km of trend with 42 rock samples returning an average of **0.57% Cu and 0.35 g/t Au**. Notable samples (Table 1) include values as high as **2.84 g/t Au, 1.79% Cu** (D00015631) and **2.02 g/t Au, 1.54% Cu** (D00015624). These rock samples come from areas with limited or no historic sampling and some are from areas of recent glacial retreat.

Sample No	Au (g/t)	Ag (g/t)	Cu (%)
D00015624	2.02	9.31	1.54
D00015631	2.84	6.74	1.79
D00015638	0.51	5.93	1.25
D00015650	0.56	2.36	1.08
D00015653	0.65	2.32	1.02
D00015658	0.42	12.3	1.42

Table 1: Notable Rock Samples from Sheeted Qtz Stockwork Zones

Sampling outside of these stockwork zones also returned significant values up to **12.5% Cu** (D00015665) from poddy chalcopyrite mineralization within silicified diorite. Table 2 highlights several of these samples.

Sample No	Geology	Au (g/t)	Ag (g/t)	Cu (%)
D00015665	Poddy Cp within sil diorite	0.09	30.1	12.5
D00015615	Qtz vein wall rock alteration	2.39	3.38	5.12
D00015616	High sulfidation epithermal vein	2.7	13.3	3.77

Table 2: Notable Rock Samples from Big Bulk

Golden Mickey

Field crews spent two days visiting the Golden Mickey target. One day was in conjunction with the BCGS/UBC program and another day was spent locating a historic adit to confirm the style of mineralization present. One sample (D00015534) **returned 24.2% Cu, 7688 g/t Ag, 16.5 g/t Sb, and 1.45% Zn.** The mineralization is characterized by a 30cm wide lens of massive tetrahedrite, chalcopyrite, and malachite within argillites that dips at a shallow angle into the cliff face.

VMS

Due to inclimate weather and poor conditions for helicopter access, limited work was performed on the VMS claims. An attempt was made to locate areas of sericite altered volcanics with the best sample returning (D00015656) **0.11 g/t Au, 5.91 g/t Ag, and 3.08% Zn**. Sampling of historically sampled mineralization within near source angular float in sericite altered volcanics returned up to **57.9 g/t Ag, 5.08% Pb, and 4.47 % Zn** (D00015655). Stream sediment sampling within the VMS target area failed to return any significantly anomalous samples except for one sample (D00015805) that returned **0.65% Cu and 0.65 g/t Au.** This sample was taken from a 1m wide stream draining the southeast flank of Lavender Peak. Given the encouraging grade and the Cu:Au ratio of this sample, it potentially represents porphyry style Cu-Au mineralization such as that which is found at the Big Bulk target.

6.0 CONCLUSIONS

The 2017 exploration program was the first significant program completed by OK2 Minerals on the Kinskuch Project. The project was designed to evaluate all three target areas on the property; however, given the more advanced stage of the Big Bulk target, the bulk of work was focused on advancing it near to the point of diamond drill hole selection. The program was successful in advancing all three targets and was especially successful in proposing and adding credibility to a new tilted porphyry model for the Big Bulk target.

Big Bulk

Pre-field office studies and map compilation led Orevista geologists to believe that the historic model for the Big Bulk porphyry system was incorrect and it was not vertical but in fact sub-horizontal. Historic mapping indicated that Kinskuch Lake area was located within a paleobasin where subsequent deformation tilted basin stratigraphy near the porphyry system to subvertical beds that young to the east. This data was collaborated by a June field visit undertaken by the BC Geological Survey, the University of British Columbia (UBC), and Orevista geologist Gayle Febbo. Their mapping agreed with historic measurements and also indicated a tilt of approximately 90 degrees to the east in the area of the Big Bulk intrusive complex. What they also noted were several east verging thrust faults which in one place on the Dolly Varden Big Bulk claims (north of the Bonnie Zone) had emplaced core zone alteration on top of higher argillic alteration. Deformation on the eastern part of the target resulted in moderate tilting around the Bonnie Zone inferred from moderate dipping beds to the north. This model gave Orevista geologists a vector towards the center and western part of the Big Bulk claims for potentially hosting further core zone alteration and mineralzation.

The 2017 field program initially focused on the western part of the Big Bulk claim package south of the historic Seebee zone and west of the historic Nickie zone. This area had seen limited rock sampling, possibly due to the presence of significant overburden but also likely due to limited brightly oxidized phyllic altered outcrops. It became apparent to Orevista geologists that the bulk of historic rock sampling had been done in gossanous outcrops and even on the outcrop scale, more silicified and less oxidized portions of outcrops were often unsampled. More often than not, these outcrops with little oxidation were due to much higher silicification, often in the form of sheeted copper-gold bearing quartz veins. This western area was terminated to the west by a dextral strike slip fault but remained open under till and then Kinskuch Lake to the east. Further prospecting via motor boat of the islands within Kinskuch Lake revealed more sheeted quartz vein mineralization across the lake and up to the Bonnie Zone. Several islands had not been historically sampled but one, the location of historic drill holes BB03-07 and BB03-08, showed that the majority of historic sampling had occurred in the downgraded phyllic altered parts of the island as opposed to the intact sheeted quartz veins.

Further prospecting, mapping, and sampling was completed to the east up the Bonnie and Bonnie East zones to the edge of glacial ice. Orevista geologists noted several xenoliths (up to ~30x30m) of sheeted quartz vein core mineralization that had minimal or no historic sampling. Given the sub-horizontal porphyry model the location of core zone mineralization represents the core of a porphyry system over ~3km. Many of these mineralized outcrops have been intruded by later P3 diorites which have effectively cannibalized mineralization and depressed copper and gold grades. Evidence for this also includes the presence of smaller sheeted quartz vein xenoliths distal to the mapped core zone. The area under Kinskuch Lake between the Bonnie Zone and the Nickie Zone represents an untested region with the potential to host a larger intact body of core zone mineralization. In total 42 rock samples were taken within core zone mineralized rocks and they averaged 0.57% Cu and 0.35 g/t Au. Given these impressive grades at surface

exploration diamond drilling is warranted on the covered regions under Kinskuch Lake on this promising target.

Outside of the core zone mineralized areas geologists were also successful at characterizing the style of mineralization responsible for the often extremely high grade grab samples throughout the property. A late epithermal Au-Cu±Ag±Pb±Zn veining event took place after the porphyry emplacement. The majority of this mineralization is located on the southern flank of the porphyry system in addition to the upper parts (East) of the system where it overprints an upper breccia body (Bonnie and Bonnie east).

Historic drilling often displayed low grade intercepts interspersed with higher (ore) grade intercepts. This can now be explained by intercepts mainly consisting of later P3 diorites with either xenoliths of sheeted quartz vein mineralization and/or intercepts of epithermal veining. Given the new geological and alteration interpretations historic drill logs will need to be reanalysed based upon their elemental ratios. Those intercepts with Cu:Au ratios around 1-1.5:1 with little to no base metals should be classified as core zone mineralization or higher level breccia whereas those with higher base metal concentrations can be attributed to later epithermal veining. Although the epithermal mineralization on the property often carries spectacular grades it will be important to focus on the porphyry style mineralization for future drill campaigns since it will be more likely to add up to a significant resource.

Outside of historically worked areas, Orevista geologists made a discovery of a new zone of quartz stockwork within QSP altered diorites. This region at the southern end of the Big Bulk property was freshly exposed due to recent glacial retreat. This area only saw two days of work in the 2017 field program but it will require more work in future field seasons, which will need to be done in September when annual snow and ice melt is at its maximum. This area represents an exciting new target given the Midnight Blue porphyry showing to the south. In theory, this N-S orientation of porphyry style mineralization shows many similarities to the Kerr-Sulphretes-Mitchell camp where large Cu-Au porphyries are spaced several Km apart along a N-S axis within a paleobasin.

Golden Mickey

2017 field work on the Golden Mickey claim group was limited in its extent. Field crews completed one traverse with UBC geologists to familiarize themselves with the property geology. A second day was spent locating the historic Basin showing and adit. One sample was taken from this adit which although high grade did not necessitate further work during the field season. Future work on this high grade target should consist of more detailed prospecting in conjunction with a soil sample survey. At this time, the author does not recommend further work at the expense of work on the Big Bulk portion of the property.

VMS

A week of prospecting, sampling, and mapping work was planned for the VMS claims which required standby helicopter support due to the extremely rugged topography in the area. A helicopter was chartered and based out of the Big Bulk field camp for the duration of this week. Unfortunately, for the majority of the week low visibility conditions persisted in the area and only two days of work were completed on the project.

Sampling of historically located mineralization proved to have the potential for the project to host economic Pb-Zn-Ag mineralization and future work will be required to evaluate the potential of this project. One note of interest is that stream sediment sample (D00015805) returned 0.65% Cu and 0.65 g/t Au. This sample potentially indicates the presence of porphyry style mineralization extending east of the Big Bulk

system and onto the VMS claim package. Future work on the project should not be limited to identifying the potential for VMS style mineralization but also investigate the potential for bulk tonnage porphyry style mineralisation. The recently completed ZTEM survey did locate a magnetic anomaly in the vicinity of this anomalous sample so future work should investigate this region.

7.0 RECOMMENDATIONS

A proposed program of work for the Kinskuch property includes the following:

- **Further soil sampling, mapping, and prospecting on the Golden Mickey claims.**
- **Detailed mapping, sampling, prospecting, and a large-scale soil sample survey over the VMS claim package.**
- **Further prospecting, sampling, and mapping of any new outcrop exposures on the Big Bulk claims with focus on the south end of the claims where stockwork discoveries were made in 2017.**
- **A 2000-3000m diamond drill program on the Big Bulk claims targeting core zone mineralization in covered areas on the western part of the claim package, underneath Kinskuch Lake between the Nickie and Bonnie Zones, and to the south of the Bonnie East Zone where glacial ice obscures outcrop.**

Respectfully submitted,

Dustin Perry, BSc.
December 14th, 2017

8.0 REFERENCES

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APPENDIX A: STATEMENT OF QUALIFICATIONS

For: Dustin Perry of 42012 Birken Rd, Squamish, BC.

I graduated from the University of British Columbia with a Bachelor of Sciences Degree in Geology (2013);

I have been practicing my profession as a geologist in mineral exploration and mining continuously since 2010 and seasonally since 2008

The observations, conclusions and recommendations contained in the report are based on supervision of the described program, field examinations, and the evaluation of results of the exploration program completed by the operator of the property.

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Dustin Perry, BSc.

December 14th, 2017

Appendix B: Statement of Expenditures

Personnel (Name)* / Position	Field Days	Days	Rate	Subtotal	
Dustin Perry, Project Geologist		23	$670.00	$15,410.00	
Kyle Dzaima, Geologist		32	$495.00	$15,840.00	
Gayle Febbo, Mapping Geologist		30	$670.00	$20,100.00	
Luana Yeung, Jr. Geologist		31	$650.00	$20,150.00	
Ora , Cook		26	$375.00	$9,750.00	
Rugged Edge Holdings				$7,612.50	
				$88,862.50	$88,862.50
Office Studies	Personel	Hours	Rate	Subtotal	
Report preparation	Dustin Perry	50.0	$60.00	$3,000.00	
Report preparation - Geology	Gayle Febbo			$5,700.00	
GIS	Dustin Perry	50.0	$60.00	$3,000.00	
Map Compillation	Gayle Febbo			$3,335.06	
Program Planning	Dustin Perry	18.0	$60.00	$1,080.00	
				$16,115.06	$16,115.06
Ground Exploration Surveys	Area in Hectares/Personel				
Geological mapping	All of Property/Gayle Febbo				
Reconnaissance	All of Property/Febbo, Perry, Dziama, Yeung				
				$0.00	$0.00
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal	
Stream Sediment	5 Stream Sediment Samples	5.0	$32.20	$161.00	
Rock	196 Stream Sediment Samples	196.0	$32.20	$6,311.20	
				$6,472.20	$6,472.20
Airborne Geophysical Survey	Number of Samples	No.	Rate	Subtotal	
ZTEM Survey	331.5 line km			$52,956.37	
Geophysical Report		3.0	$1,100.00	$3,300.00	
				$56,256.37	$56,256.37
Transportation		No.	Rate	Subtotal	
Truck Rental	1 Tonne (Driving Force)	1.00	$3,000.00	$3,000.00	
Truck Rental	D. Perry	3562.00	$0.75	$2,671.50	
Trailer Rental	20ft	1.00	$1,000.00	$1,000.00	
Fuel	Fuel for Trucks			$1,566.53	
Helicopter (hours)	Summit: Bell 407	20.40	$1,595.00	32538	
Helicopter (hours)	Summit: Bell 206L4	9.00	$1,250.00	$11,250.00	
Fuel (litres)	Jet Fuel/Diesel Fuel/Delivery			$9,314.34	
Flights	Actual Costs			$441.12	
Flights	Alpine Lakes: Cessna	3.00	$1,380.00	$4,140.00	
Boat Rental	Matrix	26.00	$150.00	$3,900.00	
Freight	Bandstra			$285.96	
				$70,107.45	$70,107.45
Accommodation & Food	Rates per day				
Hotel	Actual Costs			$1,615.53	
Camp Rental	$100/pp/day	112.00	$100.00	$11,200.00	
Lumber				13126.34	
Miscellaneous Camp Expenditures	Actual Costs			2,720.58	
Groceries and Meals	Actual Costs			$9,715.48	
Expediting	Polar Ridge Resources			$6,599.39	
First Aid Rental	Polar Ridge Resources			$1,075.20	
				$46,052.52	$46,052.52
Miscellaneous					
Field Supplies: Deakin	Sampling materials			$3,631.27	
				$3,631.27	$3,631.27
Equipment Rentals					
Chainsaw	$25/day	15.00	$25.00	$375.00	
Radios	$10/day pp	$105.00	10	$1,050.00	
Satellite Phone	Actual Costs	1000.00	$1.00	$1,000.00	
Field Computer	Field computer, printer, monitor	50.00	$70.00	$3,500.00	
Inreach	Rental + usage	1.00	$200.00	$200.00	
Camp Radio	$10/day	26.00	$10.00	$260.00	
				$6,385.00	$6,385.00
TOTAL Expenditures					$293,882.37

Appendix C: Tenure Information

KINSKUCH PROPERTY: MINERAL TENURES					**Date:**	**15-Dec-17**
OWNER:	**OK2 Minerals Ltd by option**		**BC Client No.**		**Tenures:**	**18**
ROYALTY:					**Area (ha):**	**4,322.07**
MINING DIVISION: Skeena			GEOGRAPHIC COORDINATES:	55° 38' 33.87" N, 129° 20' 46.89" W		
LAND DISTRICT: Prince Rupert						
LOCATION:	Kinskuch Lake					
MAP NO.	NTS:	103P11	UTM COORDINATES (NAD 83, ZONE 9N): 478119E, 6166373N			

Tenure No.	Tenure Type	Owner	Map No.	Record Date	Good To Date	Area (ha)
385586	Mineral	147265 (100%)	103P064	2001/APR/03	2023/JUN/13	400.00
385587	Mineral	147265 (100%)	103P064	2001/APR/03	2023/JUN/13	500.00
385591	Mineral	147265 (100%)	103P064	2001/APR/03	2023/JUN/13	300.00
385592	Mineral	147265 (100%)	103P064	2001/APR/03	2023/JUN/13	450.00
385602	Mineral	147265 (100%)	103P064	2001/APR/03	2023/JUN/13	500.00
385603	Mineral	147265 (100%)	103P064	2001/APR/03	2023/JUN/13	500.00
385604	Mineral	147265 (100%)	103P064	2001/APR/03	2023/JUN/13	375.00
1027569	Mineral	116570 (100%)	103P	2014/APR/17	2024/DEC/01	73.13
1035460	Mineral	116570 (100%)	103P	2014/APR/17	2020/APR/27	237.55
1035461	Mineral	116570 (100%)	103P	2014/APR/17	2024/DEC/01	36.56
1035604	Mineral	116570 (100%)	103P	2015/APR/22	2020/APR/27	602.68
1031466	Mineral	116570 (100%)	103P	2014/OCT/08	2020/APR/27	54.81
1027728	Mineral	116570 (100%)	103P	2014/APR/21	2020/APR/27	18.27
1039727	Mineral	116570 (100%)	103P	2015/NOV/03	2020/APR/27	36.53
1032010	Mineral	116570 (100%)	103P	2014/NOV/03	2020/APR/27	18.26
1035609	Mineral	116570 (100%)	103P	2015/APR/22	2020/APR/27	182.75
1035598	Mineral	116570 (100%)	103P	2014/JAN/02	2020/APR/27	18.26
1035611	Mineral	116570 (100%)	103P	2015/APR/22	2020/APR/27	18.26
Total	**18**					**4322.07**

Appendix D: Sample Descriptions

SAMPLE #	East	North	SAMPLE TYPE	ROCK DESCRIPTION	LITH	COLOUR	ALT 1
D00015534	471909	6168723	Grab	Outcrop	Arg	Black	
D00015540	480523	6170035	Grab	Outcrop	And	grey	silica
D00015655	481462	6164629	Grab	Float	?	Red-Brown-Black	QSP
D00015665	477849	6166879	Composite	Outcrop	Jr Drt	Green	QSP
D00015676	476345	6166435	Grab	Outcrop	Jr Drt	Grayish green	Skarn
D00015541	480523	6170035	Grab	Outcrop	And	grey	silica
D00015664	477559	6166895	Grab	Outcrop	Jr Drt	Green	QSPC
D00015616	476370	6166412	Grab	Outcrop	HS Vein	Black	Skarn
D00015658	476362	6166403	Grab	Outcrop	Jr Drt	Green	Potassic
D00015624	476092	6167056	Grab	Outcrop	Jr Drt	Green	Potassic
D00015631	476101	6167075	Grab	Outcrop	Jr Drt	Green	Potassic
D00015911	475665	6165911	grab	Outcrop	And	grey	Silica
D00015535	476776	6166690	Grab	Outcrop	Jr Drt	Dark Green	QSPC
D00015638	476938	6166887	Grab	Outcrop	Jr Drt	Green	Potassic
D00015656	481521	6164661	Grab	Outcrop	?	Red-Brown-Black	QSP
D00015574	481514	6164676	Grab	Outcrop	And	Green-yellow	

SAMPLE #	ALT 2	MINERALIZATION	MAGNETISM	STRUCTURE
D00015534		Massive Aspy, Cp, Tet, Sp	No	
D00015540		Py, Cpy (0.01%) and trace galena. Fine disseminations	No	86 -> 170
D00015655		Disseminated Gal (1%), Py (3%), Tet (2%), Cp (0.1%)	No	
D00015665		Coarse and blebby Cp (30%)	No	
D00015676		Cp in veins, globby, and finely diss (15%)	Strong	
D00015541		Py (50%) with sericite in halos		88 -> 334
D00015664		Dis'd Py (6%) and Cp (0.1%)	No	
D00015616	Silica	Diss Cp (9%)	No	
D00015658	QSPC	3% fn/coarse diss Py, 0.3% fn diss/vn hosted Cp. Tr CuOx	Mod	
D00015624	Silica	Fine and coarse grained diss and vn hosted Cp (4%) and CuOx throughout.	Strong	
D00015631		Coarse Cp centerlined in veins and fine diss Cp (5%)	Strong	180/sub vertical
D00015911		Py (9%) very fine net textured	Weak	
D00015535	Silica	Disseminated Py (2%) sometimes appearing inside Qz clusters. Trace Cpy and malachite	No	
D00015638		Fine and coarse diss Cp (6%) also vein hosted	Weak	
D00015656		Diss'd vn hosted Gal(1%), Cp)Tr), Py (1%)	No	
D00015574		Epithermal veins +py 2% gal 0.5% Py 2% and Tetrahedrite 0.3%	No	45->173

SAMPLE #	NOTES
D00015534	A representative grab sample from a 40cm massive sulfide lens hosted within black argillites. Dipping gently to the NE. Historic adit at the Basin showing.
D00015540	Crowded felds porphyry (B+Ck). Pervasive silica (30) cut by epithermal veins with faint warm hues to Py, dodecohedron crystal structure, veins mostly Qz Py +/- Cpy (0.01), qz Chl veins and py and rare/fine silver metallic disseminations (galena?). Potential Au epithermal target zone around 50m wide
D00015655	Angular float sample of red-brown-black strongly QSP altered rock. Unable to ID protolith. Qtz30Ser10ChlTrHemTrGal1Py3Cal5 Soft green ser, ttr chl, diss Tet/Cp
D00015665	Composite sample over 50cm in QSP altered diorite with poddy Cp (30%). Near stockwork zone and could be remobilized.
D00015676	Clast or pod of highly siliceous altered rock in P3 diorite. Grayish green. Proximal to late copper bearing epithermal veining. 15% qtz-FeCarb-Cp veins. 15% Cp in veins, globby, and finely disseminated. Trace tetrahedrite? In veins. Si50Cp15Mt10. NOTE: there is a lens/vein of 100% Cp in this same location observed over an area of 7cm x 40cm.
D00015541	lith sil(30) pervasive intense gossen vein. Characteristic yellow weathering. Potential Au grade
D00015664	Grab sample from clast of Bonnie Bx sandwiched between late mineral porphyry. Med-coarse grained disseminated and vein hosted sulfides. Si30Chl3Py6Cp0.1
D00015616	Grab sample from magnetite rich Qtz vein clast. Si10Mt80Cp9. Potential Kspar within qtz veins.
D00015658	Grab sample from QSPC over Pot (transitional pot) altered qtz stockwork. 20% mineralized anastamosing/disarticulated qtz veins. Fine to coarsely disseminated sulfides with Cp occuring in veins and as disseminations. Outcrop represents small clast of core alteration. Si35Chl7Py3Cp0.3MtTrCuOxTr
D00015624	Anastamosing sheeted Qtz stockwork in diorite hose. Intense silica/potassic alteration. 30% Qtz-Cp veins. Fine and coarse Cp in veins and disseminated. CuOx and Lim throughout. Si40Chl7Cp4CuOx2FeOx4Mt2.
D00015631	Sample from sheeted quartz veins. 40% qtz veining. Anastamosing veins with genaral trend of 180/sub vertical. Coarse Cp in veins (centerlined) and fine disseminated Cp throughout. Si40Chl7Cp5Mt2
D00015911	sample taken from wallrock contact with vein. Vein trend 230/-50. sulphides tend to be outside of qz veins
D00015535	Contains stockwork-like veining. Lots of silica overprint and epithermal silica. Tried to sample porphyry stockwork.
D00015638	Strong potassic altered sheeted quartz veins. >70% quartz veining, some k-spar in veins. 6% coarse/finely disseminated Cp (also vein hosted) but mineralization is continuous. Veins and diorite are at equilibrium. P3 late mineral intrusive to the north. QSP alteration to the north and south on both sides of quartz zone. Post mineral monzonite to south. Drilling targetted area and hit from ~10-20m then likely went into P3 intrusive. Shallow dip towards Nickie sheeted quartz outcrop. Bn and Cov also present in trace ammounts as well as a black mineral associated with Cp. Si80Kspar2Cp6BnTrCovTrMtTrChl2CuOX1
D00015656	Gossanous o/c grab from vms horizon? Red, brown, black rock which is too altered to ID protolith. Qtz30Ser10Calc7Mn2(in calc/ox)Gal1CpTrPy1.
D00015574	Intensely altered ?volcanic rock. Pervasive Sil 30 Cal 10 Chl 10 Ser 15 Py 2 Gal 0.5 Cpy Tr Tet 0.3 Hem tr. Numerous cal-gal epithermal veins cut it. Very gossanous knoll

SAMPLE #	East	North	SAMPLE TYPE	ROCK DESCRIPTION	LITH	COLOUR	ALT 1
D00015622	475576	6166903	Grab	Outcrop	Jr Drt	Brown	?
D00015539	480519	6170087	Grab	Outcrop	And	red	silica
D00015644	477946	6166891	Grab	Outcrop	Jr Drt	Green	QSPC
D00015570	475995	6167239	Grab	Outcrop	Jr Drt	White	QSP
D00015588	478478	6166925	Grab	Outcrop	And	Green	QSP
D00015654	481462	6164629	Grab	Float	?	Red-Brown-Black	QSP
D00015587	482313	6166603	Grab	Outcrop	Fel	White	Silica
D00015615	476373	6166416	Grab	Outcrop	HS Vein	White	Silica
D00014534	475747	6167178	Grab	Outcrop	Jr Drt	Green; grey-white	QSPC
D00015646	477889	6166860	Grab	Outcrop	Jr Drt	Green	Potassic
D00015677	475646	6166383	Rep Grab	Outcrop	And	Gray	Hornfels
D00015618	476112	6166495	Grab	Outcrop	Jr Drt	White	QSP
D00015545	477857	6166824	grab	Outcrop	Jr Drt	dark grey	QSPC
D00015582	482273	6161338	Grab	Outcrop	And	Green	Phyllic
D00015661	477851	6166820	Grab	Outcrop	Jr Drt	Green	Potassic
D00014547	476094	6167052	Grab	Outcrop	Jr Drt	Green	Potassic
D00015561	475801	6167065	Grab	Outcrop	Jr Drt	Pale green	QSP
D00015577	477875	6166806	Grab	Outcrop			Potassic
D00015662	477857	6166821	Grab	Outcrop	Jr Drt	Green	Potassic

SAMPLE #	ALT 2	MINERALIZATION	MAGNETISM	STRUCTURE
D00015622		Disseminated and globby Py (5%), Cp (5%) and CuOx (2%).	No	50 -> 245
D00015539		Py (1%), Cpy (trace)	No	78 -> 030
D00015644		Diss Py (10%), Cp (Tr), and CuOx (Tr)	No	
D00015570	Albitic	Py 2%, Cpy 0.5% trace mal dis'd	Weak	82->125 vein
D00015588	Argillic	Within vein, Py 70%, Sph1 %	No	284->64
D00015654		Disseminated Gal (1%), Py (3%)	No	
D00015587		py 1%	No	
D00015615		5% Cp, 2% Py, Tr Sp, 1% CuOx	No	60 -> 222
D00014534		7% dis'd py; Cpy tr dis'd	No	63->300 qsp vein
D00015646	QSPC	Diss and vn hosted Py (7%), Cp (2%), tr dis'd Cv, and fc CuOx (0.5%)	No	
D00015677	QSP	Finely diss Py (3%)	No	
D00015618		Diss Py (13%) and Cp (0.2%).	No	
D00015545		cpy (1%) py (3%)	No	
D00015582		1% dis'd pyrite; malachite/azurate trace on fractures	No	
D00015661	QSPC	fine to coarsely dis'd Py (7%) and Cp (0.5%)	Wk	
D00014547		Cpy 1% diss'd and in veins; Py 0.8% diss'd in veins	Mod	62->290
D00015561		Py 7%, Cpy 0.3% dis'd	No	
D00015577		cpy 1.2%; py 0.5% dis'd and vein-hosted	Mod	90->244
D00015662		fine to coarsely dis'd Py (7%) and Cp (0.2%)	Wk	

SAMPLE #	NOTES
D00015622	Hanging wall mineralization in very strongly weathered cliff face (diorite with normal fault). Unable to identify alteration type but likely deeper fluids coming up an old fault. Si25Py5Cp5CuOx2. Just west of main fault.
D00015539	1-3% chalcedonic, banded quartz. Gossen is deep rusty red. Epithermal crowded feldspar porphyry flow. Pervasive silica (locally)
D00015644	Grab sample from sheeted Qtz vein stockwork. Appears to be continuation of lower elevation stockwork but veining appears more brittle due to being higher in E-W system. QSP overprint likely altering most Cp->Py. Bounded by Bonnie Bx to S and P3 intrusive to N. Si40Chl1Py10CpTrCuOxTr. Dio hosted.
D00015570	Anastamosing HOT veins cut P2 in intense QSP; veins potentially flank potassic-albitic ? Sil 40 Ser 7 Py 2 Cpy 0.5 Mt Tr Fe-cb 1 Mal Tr
D00015588	1 m wide domain of vein and halo/stratiform-type replacement. Andesite lpt. QSP +arg; resembles Snowfield advanced argillic, potentially part of arg altn.
D00015654	Angular float sample of red-brown-black strongly QSP altered rock. Unable to ID protolith. Qtz30Ser10ChlTrHemTrGal1Py3Cal5 Soft green ser, tr chl, potentially Tet. Dark sooty matte sulfide.
D00015587	Rhyolite (exhalite?) horizon plus nodules of clays and pyrite
D00015615	Grab sample from epithermal qtz vein (30cm) with sugary qtz. 5% Cp, 2% Py, Tr Sp, 5% FeOx, 1% CuOx in diorite host. Si70Cp5Py2SpTrFeOx5CuOx1.
D00014534	Faintly porphyritic host; 7% qz-py veins, thin no halo; Sil 40Ser15Chl5Py8CpyTr; high sil resistive knoll; QSP stringer 63->300, 1 cm wide
D00015646	Grab sample on edge of sheeted vein raft. Si65Chl7Py7Cp2CvTrCuOx0.5 Very steep sampling. Sheeted veins up to 10%. Lower temperature looking textures (still anastamosing) than on the islands. Dark green chloritized diorite host.
D00015677	Representitive grab sample over 12m. Silicified/hornfels gossan in volcanoclastic rock. Darkish gray. Sample taken away from high sericite zones, but outcrop can be characturized as QSP. 5% quartz veins. 3% finely disseminated Py. Limonite/jarosite on weathered surfaces.
D00015618	Grab sample from intense QSP altered diorite - bleached. Si40Py13Cp0.2CuOxTrHemTr. Modeate FeOx after Py.
D00015545	vein abundance around 10% but sulphides can be found disseminated outside of veins
D00015582	Intense sericite-chlorite-carbonate altered andesite with abundant Fe-Ox and traces of Mal-Azur.
D00015661	Grab sample from Qtz stockwork in diorite. Transitional Pot alt with QSPC overprint. Appears that most Cp has been altered to Py. Finely dis'd sulfides/vn hosted. Some Cp is coarse. 15% qtz veins. Si40Chl7Py7Cp0.5Mt0.5
D00014547	Green drt porphyry ibx Sil40Chl10Mt1, 30% sheeted veins, no vein halos, anastamosing, grey coloured, excellent medial py-cpy-mt in vein, abundant mal
D00015561	Pale green drt porphyry, relict core altn preserved (?potassic) in patches with strong QSP overprint in corridors. Sil50Chl5Py7Cp0.3Ser10Mt0
D00015577	On ridge: intense silica 40% chl 10% Mt Tr ?bt pervasive. Dis'd cpy intense near vein. Cpy 1.2% py 0.5%, potentially other cu minerals. Tr anhy ?/kf?
D00015662	Grab sample from Qtz stockwork in diorite. Transitional Pot alt with QSPC overprint. Appears that most Cp has been altered to Py. Finely dis'd sulfides/vn hosted. Some Cp is coarse. 15% qtz veins. Si40Chl7Py7Cp0.2Mt0.5

SAMPLE #	East	North	SAMPLE TYPE	ROCK DESCRIPTION	LITH	COLOUR	ALT 1
D00015537	477869	6166866	Grab	Outcrop	Jr Drt	green	Potassic
D00015632	476092	6167128	Grab	Outcrop	Jr Drt	Green	QSP
D00015650	477873	6166857	Grab	Outcrop	Jr Drt	Green	Potassic
D00015653	477870	6166858	Grab	Outcrop	Jr Drt	Green	Potassic
D00015621	475578	6166901	Grab	Outcrop	Jr Drt	Brown	?
D00015538	477868	6166868	Grab	Outcrop	Jr Drt	green	Potassic
D00015536	476781	6166715	Grab	Outcrop	Jr Drt	green	QSPC
D00015640	476936	6166874	Grab	Outcrop	Jr Drt	Green	QSP
D00015580	477868	6166820	Grab	Outcrop	Jr Drt	Green	Potassic
D00015666	477848	6166832	Grab	Outcrop	Jr Drt	Green	QSPC
D00015547	477861	6166823	grab	Outcrop	Jr Drt	dark grey	QSPC
D00015675	476869	6165820	Grab	Outcrop	Jr Drt	Gray	QSP
D00015643	478112	6166721	Grab	Outcrop	Jr Drt	Green	QSPC
D00015652	477880	6166850	Grab	Outcrop	Jr Drt	Green	Potassic
D00014532	475802	6167270	Grab	Subcrop	Jr Drt	White	QSP
D00015524	475910	6167250	Grab	Outcrop	Jr Drt	dark green	QSPC
D00015645	477939	6166888	Grab	Outcrop	Jr Drt	Green	QSPC
D00015613	476980	6166879	Grab	Outcrop	Jr Drt	Green	QSP
D00015642	476939	6166886	Grab	Outcrop	Jr Drt	Green	Potassic
D00015521	476328	6166829	Grab	Outcrop	Jr Drt	grey green	Potassic
D00015549	477866	6166825	grab	Outcrop	Jr Drt	grey	QSP

SAMPLE #	ALT 2	MINERALIZATION	MAGNETISM	STRUCTURE
D00015537		Py (4%) Cpy (0.4%) disseminated	Mod	
D00015632		Fine and coarse diss Py (7%) and Cp (2.5%)	No	
D00015650	QSPC	Diss and vn hosted Cp (3%)	Strong	
D00015653	QSPC	Diss and vn hosted Py (3%), Cp (3%), FC CuOx (0.5%)	Strong	
D00015621		Disseminated and globby Py (5%), Cp (5%) and CuOx (2%).	No	50 -> 245
D00015538		Py (4%) Cpy (0.4%) disseminated	Mod	
D00015536		disseminated and fine Py (4%), Cpy (0.1%)	No	
D00015640		Finely diss Py (10%) and Cp (0.5%)	No	
D00015580		py 3%; cpy 0.6% dis'd and vein hosted		58->186
D00015666		Dis'd and vn hosted Cp (0.5%) and Py (3%)	No	
D00015547		cpy (0.5%) vein controlled for the majority of this sulphide but can also be found disseminated outside of veins. Medium grained. Py (2%) disseminated	Mod	
D00015675		Finely diss Py (6%) and trace CuOX	No	
D00015643		Finely diss Py (6%)	No	
D00015652	QSPC	Diss and vn hosted Py (5%), Cp (2%)	Strong	
D00014532		Dis'd Py 7% Dis'd Cpy 0.5%	No	
D00015524	Potassic	Py (5%), Cpy (0.2%), trace malachite. Super fine, disseminated and smooth. Malachite coating inside of fractures	Mod	
D00015645		Diss Py (10%), Cp (Tr), and CuOx (Tr)	No	
D00015613		Diss/vn hosted Py (10%) and CP (0.3%).	No	
D00015642		Fine and coarse diss Cp (4%) also vein hosted	No	
D00015521		Py (1%), Cpy (1%) medial sulphide in veins and dissemination	No	75 -> 033
D00015549		very fine disseminated cpy (0.6%) py (7%)	Mod	

SAMPLE #	NOTES
D00015537	Vein abundance 8%. High temp veins, sheeted/stockwork. Medial sulphide + magnetite. Pervasive intense silica deep green chlorite.
D00015632	Sample north of stockwork zone. Near strong phyllic alteration. Moderate QSP overprint, mag destructive. 7% quartz veining. Fine/coarse disseminated sulfides. Bio? Si35Chl3Py7Cp2.5
D00015650	Grab sample from sheeted vein raft. 20-30% qtz veining. Si60Chl12Cp3Mt2
D00015653	Grab sample from sheeted vein raft. 15% qtz veins. Si45Cp3Py3Mt0.5CuOx0.5
D00015621	Hanging wall mineralization in very strongly weathered cliff face (diorite with normal fault). Unable to identify alteration type but likely deeper fluids coming up an old fault. Si25Py5Cp5CuOx2. Just west of main fault.
D00015538	Vein abundance 8%. High temp veins, sheeted/stockwork. Medial sulphide + magnetite. Pervasive intense silica deep green chlorite.
D00015536	Xenolith of minarlized QSPC with stockwork in late/post mineral intrusion
D00015640	Grab sample from intense QSP altered fiorite on edge of sheeted veins. Si60Py10Cp0.5
D00015580	10% stockwork and sheeted qz. Sil 50% Chl 5% Mt 1 Py 3 Cpy 0.7. Very fine disseminated throughout cpy>py but in veins py>>cpy, centerline sulphides and chl in veins most < 1cm
D00015666	Grab sample from green dio with 10-15% Qtz stockwork. Finely dis'd/vn hosted Cp/Py. Sulfide min is very smooth. Si40Chl7Py3Cp0.5. Anastamosing veins.
D00015547	vein abundance ain stockwork (10%)
D00015675	Grey strongly QSP altered diorite. 6% finely disseminated Py. Trace CuOX. Located on diorite/volcanoclastic contact.
D00015643	100m grom nearest sample. P3 intrusion? 5% mineralized qtz veins . Si30Chl5Py6
D00015652	Grab sample from sheeted vein raft. 20% Qtz veining. Si50Chl12Cp3Py2Mt2
D00014532	Grey, texturally obliterated subcrop of intense QSP. Sil35Ser10Py7Cp0.5Mal1Chl5. representative of slope
D00015524	dark green altered diorite. Outcrop inconsistently guassionous throughout. Sugary textured veins diffused boundaries, Py, cpy, magnetite in centre line. Possible relict potassic overprinting by phillic.
D00015645	Grab sample from sheeted Qtz vein stockwork. Appears to be continuation of lower elevation stockwork but veining appears more brittle due to being higher in E-W system. QSP overprint likely altering most Cp->Py. Bounded by Bonnie Bx to S and P3 intrusive to N. Si40Chl1Py10CpTrCuOxTr. Dio hosted.
D00015613	Grab sample from QSP altered diorite with moderate limonite oxidation. Cp/Py difficult to distinguish due to weathering. 5-10% qtz veining (mineralized) difficult to ID due to weathering. Strong stockwork 30-40m west on island where BB-08-07 intersected ~10m ore grade interval. Not stockwork here but copper mineralization is present yet patchy. Si30-40Py10Cp0.3
D00015642	Sheeted quartz vein zone on edge of phyllic body. 70% quartz veining. 4% coarse/finely disseminated Cp (also vein hosted) but mineralization is continuous. Trace Bn and Cov. Si70Chl1Bio1Cp4BnTrCovTrCuOX1
D00015521	sheeted, hot <1cm wide grey qz veins. Qz vein xenolith, XL in late-mineral, ibx. 25% quartz veins overall
D00015549	

SAMPLE #	East	North	SAMPLE TYPE	ROCK DESCRIPTION	LITH	COLOUR	ALT 1
D00015504	475893	6167233	Grab	Outcrop	Jr Drt	dark green	QSPC
D00015548	477872	6166820	grab	Outcrop	Jr Drt	dark grey	QSPC
D00015604	476313	6166836	Rep Grab	Outcrop	Jr Drt	Green	QSPC
D00015562	475653	6166957	Grab	Outcrop	Jr Drt	Pale green	Potassic
D00015626	476091	6167039	Grab	Outcrop	Jr Drt	Green	QSPC
D00015607	476324	6166830	Rep Grab	Outcrop	Jr Drt	Green	QSPC
D00015639	476945	6166887	Grab	Outcrop	Jr Drt	Green	Potassic
D00015902	476261	6166514	Rep Grab	Outcrop	Jr Drt	grey green	QSPC
D00015566	476074	6166921	Grab	Outcrop	Jr Drt	Green	Albitic
D00014539	473254	6168923	Grab	Outcrop	Tr Bas	Deep Green	Silica
D00015641	476933	6166875	Grab	Outcrop	Jr Drt	Green	Potassic
D00015525	475739	6167056	Grab	Outcrop	Jr Drt	dark grey	QSP
D00015670	478308	6166877	Grab	Outcrop	Jr Drt	Green	QSPC
D00014545	476015	6167217	Grab	Outcrop	Jr Drt	White	QSP
D00015527	475616	6166884	Grab	Outcrop	Jr Drt	dark green	Albite
D00015627	476095	6167021	Grab	Outcrop	Jr Drt	Green	QSPC
D00015648	477880	6166854	Grab	Outcrop	Jr Drt	Green	Potassic
D00015667	477848	6166838	Grab	Outcrop	Jr Drt	Green	QSPC
D00015603	476308	6166838	Rep Grab	Outcrop	Jr Drt	Green	QSPC
D00015617	476360	6166402	Grab	Outcrop	Jr Drt	Green	QSPC

SAMPLE #	ALT 2	MINERALIZATION	MAGNETISM	STRUCTURE
D00015504		Py (8%), Cpy (0.3%), trace malachite. Disseminated, fine and smooth. Malachite present along fractured surfaces	Mod	
D00015548		disseminated very fine cpy (0.5%) outside of veins. Py (6%)	Mod	268/58
D00015604	Potassic	Diss/Vn hosted Py (15%), Cp (0.3%).	No	
D00015562	QSP	0.5% cpy dis'd and w veins; 5% py dis'd esp w qsp veins	No	63->034 veins
D00015626	Potassic	Finely diss Py (5%) and Cp (1%). Cp veins.	No	
D00015607	Potassic	Finely diss/vn hosted pyrite (10%) and Cp (0.5%)	No	
D00015639		Finely diss Cp (4%) and Py (2%)	Strong	
D00015902		Py (1%) fine disseminated. Trace cp	No	
D00015566		Py 8% Cpy 0.05%	No	
D00014539		Py 1%	No	88->256 vein
D00015641		Vn/diss Cp (2%), tr Bn/Cv	No	
D00015525		Py (7%), Cpy (trace), malachite (trace). Superfine, disseminated and smooth	Weak	
D00015670		Dis'd and vn hosted Py (5%)	No	
D00014545		Py 10%; Cpy tr dis'd	No	88->220
D00015527		Py (4%), Cpy (trace). Disseminated, fine	Weak	
D00015627		Finely diss Py (7%) and Cp (0.5%)	Strong	
D00015648	QSPC	Diss and vn hosted Py (2%), Cp (2%)	No	
D00015667		Dis'd and vn hosted Cp (0.2%) and Py (5%)		
D00015603	Potassic	Diss Py (10%), Cp(0.2%)	No	
D00015617	Propylitic	Diss/vn hosted Py (10%) and Cp (Tr).	No	

SAMPLE #	NOTES
D00015504	Rich dark green, washed out/ intensely altered diorite
D00015548	vein abundance 8%.
D00015604	Qtz stockwork zone (30% Qtz veining) in QSPC altered diorite. Representative grab sample. Disseminated and vein hosted (centerline) Py/Cp. Si40Chl5Py15Cp0.3MalTr
D00015562	7% veins. Ghosts of phenos, crowded drt porphyry. Early intense potassic with weathered orange-pink kf in 1-5 mm veins contain cp, relict mt (?), overprinted by gossan/yellow QSP. Locally cpy-mt destroyed and fine ser lines fracs. Sil50Kf5Mt?Bt?Cp0.5Py5Chl5MalTrAzurTr
D00015626	5% Qtz stockwork zone with Pot alt overprinted by strong QSPC. Si40Chl7Py5Cp1BnTr. One Bn crystal. Phyllic downgrade.
D00015607	Representative grab sample over 2m from Qtz stockwork zone in QSPC diorite. Finely disseminated and vein hosted sulfides. Si40Chl7Py10Cp0.5Tour0.2
D00015639	Sheeted quartz vein zone. 70% quartz +/- Kspar. Fine grained disseminated biotite with chlorite. 4% finely disseminated Cp, 2% finely disseminated Py. Si80Kspar2Cp4Mt2Chl2Bio3
D00015902	clasts of mineralized P2. Unbiased composite sample over 5m. Possible P2 albite/chl/silica. 5% Qz veining.
D00015566	Ibx into earlier porphyry. P1/P2, vein is sugary grey and contains Qz90Py5Cpy5. Porphyry Sil35Chl5Alb4Py8Ser5Cp0.05, veins from transition altn between pot and propylitic, relatively hot, medial sulphide
D00014539	Vcl basalt, deep green 4% mliky/chacedonic veins +breccias; pervasive extremely fine-grained py dissimated about vein
D00015641	Clast of potassic altered sheeted Qtz vein within monzonite. 60% mineralized Qtz veins. Fine and coarse diss Cp (2%), tr Bn/Cv, also black/grey metallic sulfide (Tet?)
D00015525	dark grey altered diorite
D00015670	Grab sample from mod QSPC alt diorite. Finely dis'd sulfides. SI20Chl5Py5
D00014545	?Drt overprinted by Sil55Ser20Py10CpyTrTotrSph(?), veins and foliation subparallel at 88->220. Cpy fine interstitial py>>cpy, one late py-only vein part of phyllic/adv. Arg. (?)
D00015527	dark green mottled with buff white albite altered breccia. Grain boundaries diffuse. Albite preferentially altering groundmass, chlorite preferentially altering grains. presence of epidote
D00015627	3% Qtz stockwork zone. QSPC overprint but still strongly magnetic. Finely disseminated sulfide with strong weathering. Si30Chl7Py7Cp0.5Mt1
D00015648	Grab sample from sheeted qtz vein raft with 7% Qtz veining. Si40Chl10Cp2Py1
D00015667	Grab sample over 2m (only breakable spots on o/c). 15-20% qtz veining. Fine to med gr dis'd and vn hosted sulfides. Anastamosing veins. Dark Green. Si45Chl7Py5Cp0.2
D00015603	Representative grab sample from 5m area (unbiased) of strongly QSPC altered diorite with small section of increased stockwork. 10% Qtz veining. Si35Chl5Py10Cp0.2Anh0.5Tour3MalTr
D00015617	Grab sample from int3ense QSPC altered diorite. Moderate Qtrz stockwork with Qtz-epidote veining (10%) incl diss sulfides with minor CuOx/Lim on fractures. Si35Chl3Py10CpTrCuOxTrEpi1

SAMPLE #	East	North	SAMPLE TYPE	ROCK DESCRIPTION	LITH	COLOUR	ALT 1
D00015660	476326	6166467	Grab	Outcrop	Jr Drt	Green	Potassic
D00015649	477876	6166853	Grab	Outcrop	Jr Drt	Green	Potassic
D00015651	477872	6166855	Grab	Outcrop	Jr Drt	Green	Potassic
D00015630	476076	6167050	Grab	Outcrop	Jr Drt	Green	Potassic
D00015663	477892	6166814	Grab	Outcrop	Jr Drt	Green	Potassic
D00015609	476331	6166820	Rep Grab	Outcrop	Jr Drt	Green	QSPC
D00015505	475896	6167233	Grab	Outcrop	Jr Drt	dark green	QSPC
D00015552	475856	6167184	Grab	Outcrop	Jr Drt	Deep green	Potassic
D00015602	476305	6166838	Grab	Outcrop	Jr Drt	Green	QSPC
D00015657	481115	6164682	Grab	Outcrop	Volcaniclastic	Maroon	
D00015625	476089	6167052	Grab	Outcrop	Jr Drt	Green	Potassic
D00015544	477869	6166872	Grab	Outcrop	Jr Drt	dark green	QSPC
D00015565	476074	6166942	Grab	Outcrop	Jr Drt	Green	Potassic
D00014536	475543	6166926	Grab	Outcrop	Jr Drt	Pale grey	QSPC
D00015571	475995	6167228	Grab	Outcrop	Jr Drt	Green	Potassic
D00015634	476649	6166709	Grab	Outcrop	Jr Drt	Green	
D00015647	477885	6166861	Grab	Outcrop	Jr Drt	Green	Potassic
D00014543	475901	6167157	Grab	Outcrop	Jr Drt	White	QSP
D00015608	476331	6166824	Rep Grab	Outcrop	Jr Drt	Green	Potassic
D00015502	475833	6167277	Grab	Outcrop	Jr Drt	dark green	QSPC

SAMPLE #	ALT 2	MINERALIZATION	MAGNETISM	STRUCTURE
D00015660	QSPC	6% fn/coarse diss Py, 0.3% fn diss/vn hosted Cp. Tr CuOx	Mod	
D00015649	QSPC	Diss and vn hosted Cp (3%)	Strong	
D00015651	QSPC	Diss and vn hosted Py (2%), Cp (3%)	Strong	
D00015630	QSPC	Fine diss Py (5%) and fine smooth diss Cp (1.5%). Vn hosted too	Strong	
D00015663	QSPC	finely dis'd Py (8%) and Cp (0.2%)	No	
D00015609	Potassic	Disseminated and vn hosted Py (5%) and Cp (3%)	No	
D00015505		Py (8%), Cpy (0.5%), trace malachite. Disseminated, medium grained pyrite. Some concentrated in thin veins. Cpy fine, disseminated and mottled. Malachite coating on meathered surfaces	Weak	
D00015552		Py 0.5% dis'd, Cpy 0.6% dis'd and with veins	Mod	72->275, qz-sulphide, 2 mm
D00015602		Diss Py (7%), Cp (tr)	No	
D00015657		Dis'd CuOx (0.5%)	No	
D00015625	Silica	Finely diss/vn hosted pyrite 2%) and Cp (3%)	Strong	
D00015544		veins (98% py and trace cpy). Disseminated cpy (0.8%) Py (4%)	No	90 -> 212
D00015565	QSP	Py dis'd 5%, cpy dis'd 0.1%	No	
D00014536		Py 6% dis'd; Tr Cpy	No	76->025 QSP vein
D00015571	QSP	Py 6% cpy 0.8% dis'd	No	52->256
D00015634		Finely diss and vein centerline hosted Py (3%) and Cp (2%)	Mod	
D00015647	QSPC	Diss and vn hosted Py (7%), Cp (4%), tr dis'd Cv	No	
D00014543		Py 6% disseminated, tr mal, tr Cpy fine disseminations about vein	No	78->245 vein
D00015608	QSPC	Disseminated and vein hosted Cp (3%)	Mod	
D00015502		Py (10%), Cpy (0.5%) Blocky, disseminated and coarse	Weak to Mod	

SAMPLE #	NOTES
D00015660	Grab sample from QSPC over Pot (transitional pot) altered qtz stockwork. 20% mineralized anastamosing/disarticulated qtz veins. Fine to coarsely disseminated sulfides with Cp occuring in veins and as disseminations. Outcrop represents small clast of core alteration. Si35Chl7Py6Cp0.3MtTrCuOxTr
D00015649	Grab sample from sheeted vein raft. 20% Qtz veining. Si50Chl12Cp3Mt2
D00015651	Grab sample from sheeted vein raft. 30% qtz veining. Sulfide centerlines, pink mineral (kspar?) in veins. Si60Py5Cp2Mt2.
D00015630	Near old drill collar from quartz stockwork. Potassic with minor QSPC overprint. 7% qtz veining. Si35Chl7Py5Cp1.5Mtq1
D00015663	Grab sample from Qtz stockwork zone. QSPC overprint over Pot. 20% qtz veining. finely diss Py/Cp and coarse Cp. Si40Chl5Py8Cp0.2
D00015609	Representative grab sample from edge of stockwork zone in diorite. Albite alteration in addition to QSPC/POT. Si35Chl10Alb5Py5Cp3
D00015505	Dark green, relict place and phenocrysts. Intensely altered diorite
D00015552	Faintly porphyritic deep green drt. Sil35Chl10Mt2Bt/Kf?Py0.5Cpy0.6. Transitional potassic/potassic, 5-8% veining, no halos, medial sulphide, core to phyllic altn near lake. Strong mt.
D00015602	Grab sample of strongly QSPC altered diorite. 6% qtz veining. Si35Chl5Py7CpTrTour3Anh0.5. Black tourmaline?/kahki anhydrite.
D00015657	O/C grab from dangerous cliff over creek. Betty Ck maroon volcanics with 0.5% CuOx after tet/chalc?
D00015625	Grab sample from area of 20% Qtz stockworking. Si35Chl7Cp3Py2CuOx0.5FeOx0.5Mt2
D00015544	lots of sulphide disseminated though vein abundance is low (5%).
D00015565	Synmineral (?P2) porphyry surrounded by ibx, 1x1m stockwork/sheeted hot veins 32->309. Sugary veins are pink (rose qz/anhy/kf?) Sil 35 Chl 5 Mt 0 Ep 0 Py 5 Ser 5 Anhy 1) early transitional potassic overprinted by QSP
D00014536	Outcrop of veins introduce QSP. Sheeted at 76->025 pervasive Sil40Ser15Chl5Py6Mt0Arg3. 3% sheeted veins and stockwork in hbdrt m-g
D00015571	Medium-grained drt P2Sil 40Ser10 intense qsp overprint on earlier porphyry stockwork. Check notebook for sample #
D00015634	~15m sq xenolith of P3 intrusion with clasts of sheeted P3. Majority of island is post mineral monzonite. 5% quartz veining. Si30Chl7Py3Cp2Mt2
D00015647	Grab sample in sheeted vein raft. Si65Chl7Py7Cp5CvTr Very steep sampling. Sheeted veins up to 10%. Lower temperature looking textures (still anastamosing) than on the islands. Dark green chloritized diorite host.
D00014543	Bleached white drt por; 4% veining qz-cpy-py; high py (6%)around vein, coarse py, mal tr, cpy; fine disseminated in and around vein Sil25Py6Ser8Chl5Mt0
D00015608	Representative grab sample from waters edge in Qtz stockwork zone in green diorite. Alteration is transitional potassic. Si40Chl8Cp3Hem1Mt1. Mineralization is fine/coarsely disseminated and vein hosted. Pure Cp veins. Very hot looking.
D00015502	Dark green, very faint to texturally obliterated phenocrysts. Intensely altered

SAMPLE #	East	North	SAMPLE TYPE	ROCK DESCRIPTION	LITH	COLOUR	ALT 1
D00015589	476966	6165822	Grab	Outcrop	Jr Drt	Green	QSP
D00015904	476466	6166371	grab	Outcrop	Jr Drt	green grey	QSPC
D00015581	477798	6168794	Grab	Outcrop	Jr Drt		
D00015623	475747	6166762	Grab	Outcrop	Jr Drt	Green	QSPC
D00015555	475664	6166974	Grab	Outcrop	Jr Drt	Green	QSPC
D00015546	477863	6166821	grab	Outcrop	Jr Drt	dark grey green	QSPC
D00015572	476976	6166880	grab	Outcrop	Jr Drt	Green	Potassic
D00015903	476302	6166431	grab	Outcrop	Jr Drt	green	QSPC
D00015606	476319	6166831	Grab	Outcrop	Jr Drt	Green	QSPC
D00015614	476993	6166888	Grab	Outcrop	Jr Drt	Green	QSP
D00015568	475810	6167400	Grab	Outcrop	Jr Drt	White	QSPC
D00015611	476321	6166828	Grab	Outcrop	Jr Drt	Green	QSPC
D00015629	476082	6167032	Grab	Outcrop	Jr Drt	Green	QSPC
D00015560	475877	6167182	Grab	Outcrop	Jr Drt	Pale green	QSPC
D00015659	476323	6166461	Grab	Outcrop	Jr Drt	Green	Potassic
D00015543	477880	6166857	grab	Outcrop	Jr Drt	dark green	QSPC
D00015579	477873	6166809	Grab	Outcrop	Jr Drt	Green	Potassic
D00015512	475773	6167052	Grab	Outcrop	Jr Drt	light grey	QSP
D00015508	475996	6167198	Grab	Outcrop	Jr Drt	light grey	QSP
D00015551	475852	6167170	Grab	Outcrop	Jr Drt	Deep green	Potassic
D00015573	477923	6166915	grab	Outcrop	Jr Drt	green	QSPC
D00015590	476877	6165832	Grab	Outcrop	And	Green	Albitic

SAMPLE #	ALT 2	MINERALIZATION	MAGNETISM	STRUCTURE
D00015589		cpy 0.2% dis'd; py 8% vein-hosted and dis'd	No	80->200
D00015904		Py (5%) disseminated. Cpy (0.1%) disseminated	No	
D00015581		py 4% cpy 0.5% near/ in vein esp		90->120
D00015623	Propylitic	Diss Py (10%) and CP (0.2%)	No	
D00015555		Py 8% Cpy 0.7% dis'd	No	
D00015546		cpy (0.5%) vein controlled for the majority of this sulphide but can also be found disseminated outside of veins. Medium grained. Py (2%) disseminated	Mod	
D00015572		pyrite 3% dis'd cpy 0.3% dis'd	Mod	78->190
D00015903		Py (4%) disseminated cpy (trace) finely disseminated.	No	
D00015606	Potassic	Fine and coarse grained diss and vn hosted Py (10%) and Cp (1.5%).	No	
D00015614		Diss/Vn hosted Py (12%) and Cp (Tr)	No	
D00015568	Potassic	5% py, dis'd; cpy 0.2 %; Mal tr	No	
D00015611		Diss and vn hosted Py (10%) and Cp (0.1%).	No	
D00015629	Potassic	Fine and coarse diss Py (7%) and Cp (2%)	Strong	
D00015560		Py 10% dis'd, Cpy 0.3% dis'd	No	
D00015659	QSPC	5% fn/coarse diss Py, 0.3% fn diss/vn hosted Cp. Tr CuOx	Mod	
D00015543		disseminated Py (5%), Cpy (0.2%)	Weak	
D00015579		py 0.5%, cpy 0.6% dis'd and vein hosted		90->035
D00015512		Py (7%) smooth, fine and disseminated	Weak	
D00015508		Py (7%) with trace malachite. Smooth disseminated and medium grained	Weak to Mod	
D00015551		Py 0.5% dis'd, Cpy 0.6% dis'd and with veins	Mod	60->307 qz-sulphide, 5mm
D00015573		Py 8% Cpy 0.1% dis'd	No	
D00015590	QSP	Cpy 0.1% dis'd; py 2%	No	80->200

SAMPLE #	NOTES
D00015589	Excellent stockwork texture, 20% over 25 m N-S. Veins are banded, have dis'd py, some medial py. Very shallow expression of porphyry type stwk. Cpy very fine in groundmass. Crowded semi trachytic feld porphyry Sil 45 Ser 2 Py 8 Cpy 0.2 Chl 5 all cut by py-chl and ankerite
D00015904	stockwork veining present
D00015581	Stockwork overprints Bonnie Breccia, chaotic/hot qz-chl-mt, centerline sulphide high cpy, py in veins, More banded than typical shallower/cooler stwk, sample area; 20% veins, py 4%, cpy 0.5% cpy near/in vein
D00015623	Grab sample from QSPC over Prop alt diorite. Si25Chl5Py10Cp0.2CuOx0.2Epi1. Fine grained disseminated sulfides.
D00015555	Green drt porphyry Sil40Chl10Py8Cp0.7Ser8Mt0, 89->010, mm-scale sheeted veins QSPC altn
D00015546	vein abundance ain stockwork (10%)
D00015572	local hotter veins, medial sulphie 78->190, qz-chl-py-cpy, sugary, connect to other island, cut by P3
D00015903	Py sometimes found as medium sized grains in center of quartz veins
D00015606	Grab sample from Qtz stockwork zone in QSPC altered diorite. Fine and coarse grained disseminated sulfides. 25% mineralized qtz veins. Si40Chl5Py10Cp1.5Tour0.5
D00015614	Grab sample from stong-intense QSP altered diorite with disseminated and vein hosted Py/Cp, CuOx staining and 5-10% diffuse Qtz veins. Si45Py12CpTrCuOxTr.
D00015568	Just above monz cnt, intensely altered ?drt, sugary textured veins 10%, medial sulphide pervasive Sil 45 Chl 5 Py 5 Ser 5 Cp 0.2 Mal Tr. Mt potentially washed out from QSP. Potentially overpritned potassic alteration
D00015611	Grab sample from QSPC altered diorite with 10% qtz veining (mineralized). Vn/diss sulfides. Si35Chl5Py10Cp0.1Alb1.
D00015629	20% Qtz stockwork zone. Transitional potassic in moderate QSPC overprint. Fine and coarse disseminated Py/Cp with potential Bn.
D00015560	Pale green drt porphyry. Intense heterogeneous overprint of phyllic on core alteration. Anticipated drop in grade fro mcore o/c on knoll
D00015659	Grab sample from QSPC over Pot (transitional pot) altered qtz stockwork. 20% mineralized anastamosing/disarticulated qtz veins. Fine to coarsely disseminated sulfides with Cp occuring in veins and as disseminations. Outcrop represents small clast of core alteration. Si35Chl7Py5Cp0.3MtTrCuOxTr
D00015543	sample taken close to stockwork and in stockwork veins.
D00015579	5% sheeted veins as previous sil40% Mt 2% Deep Chl 10%Py 0.5% Cpy 0.6%.
D00015512	light grey moderately altered diorite with some relict phenos of hornblende and plagioclase
D00015508	lighty grey with faint light green altered QSP
D00015551	Faintly porphyritic deep green drt. Sil35Chl10Mt2Bt/Kf?Py0.5Cpy0.6. Transitional potassic/potassic, 5-8% veining, no halos, medial sulphide, core to phyllic altn near lake. Strong mt.
D00015573	Hanging wall of thrust contains numerous stockwork clasts ~40%. Qz veins fragments. Relict ep at contact area. Deeper green chlorite-cpy-py in clast
D00015590	andesite tuff breccia overprinted by intense Alb 2 Sil 20 Chl 5 Cpy 0.1 and late stringers of qz-carb and sporadic ep. Cpy very fine, part of early stage inner propylitic. Interpreted as background mineralization but a LS vein nearby potentially upgrades

SAMPLE #	East	North	SAMPLE TYPE	ROCK DESCRIPTION	LITH	COLOUR	ALT 1
D00015532	476266	6166575	Grab	Outcrop	Jr Drt	grey	QSP
D00015578	477884	6166806	Grab	Outcrop	Jr Drt	Green	Potassic
D00015909	476412	6166451	grab	Outcrop	Jr Drt	green	QSPC
D00015523	475898	6167204	Grab	Outcrop	Jr Drt	grey green	Potassic
D00015567	476265	6166598	Grab	Outcrop	Jr Drt	White	Silica
D00015612	476319	6166817	Grab	Outcrop	Jr Drt	Green	QSPC
D00015511	475913	6167128	Grab	Outcrop	Jr Drt	light grey green	QSPC
D00015669	478203	6166966	Grab	Outcrop	Jr Drt	Green	QSPC
D00014531	476918	6170373	Grab	Outcrop	Jr Drt	Grey-green	Skarn
D00015672	476297	6166430	Grab	Outcrop	Jr Drt	Green	QSPC
D00015576	481033	6164772	Grab	Outcrop	And	Yellow	Phyllic
D00015506	475944	6167173	Grab	Outcrop	Jr Drt	light grey green	QSP
D00015906	477072	6170082	grab	Outcrop	Jr Drt	grey	QSP
D00015564	475903	6166823	Grab	Outcrop	Jr Drt	White	Albitic
D00015584	482305	6161341	Grab	Outcrop	And	Green	Phyllic
D00015510	476107	6167126	Grab	Outcrop	Jr Drt	light grey	QSPC
D00015529	475923	6166896	Grab	Outcrop	Jr Drt	light grey	QSP
D00015550	477794	6166851	grab	Outcrop	Jr Drt	green	QSPC
D00014538	473149	6168946	Grab	Outcrop	Tr Bas	Dark grey	Silica
D00015515	475786	6166984	Grab	Outcrop	Jr Drt	grey green	QSPC
D00015907	476968	6165818	Rep Grab	Outcrop	Jr Drt	green grey	QSPC
D00015559	475911	6166761	Grab	Outcrop	Jr Drt	Pale green	QSPC
D00015553	475871	6166947	Grab	Outcrop	Jr Drt	Pale green	Potassic
D00015605	476313	6166838	Grab	Outcrop	Jr Drt	Green	QSPC

SAMPLE #	ALT 2	MINERALIZATION	MAGNETISM	STRUCTURE
D00015532		Py (8%), Cpy (0.1%) Disseminated and fine	No	
D00015578		py 6% cpy 0.3% dis'd	Weak	75->305
D00015909		PY (7%) cpy (trace). Disseminated throughout and mottled	Weak	
D00015523		Py (4%), Cpy (0.2%), trace malachite. Super fine disseminated and smooth	Weak to Mod	273/70
D00015567		1% py, 0.3% cpy, 0.2% sph in vein	No	64->330 vein
D00015612		Diss/vn hosted Py (10%) and Cp (Tr).	No	
D00015511	silica	Py (2%), Cpy (trace), malachite (trace) Disseminated and fine	Weak	
D00015669		Dis'd and vn hosted Cp (0.1%) and Py (5%)	No	
D00014531		Py 2% dis'd, Cpy Tr dis'd	No	
D00015672		Finely diss Py (3%) and vein hosted Py (0.3%) and Cp (trace)	No	
D00015576		py, cpy tr, tetrahedrite tr stratiform		
D00015506	Chlorite	Py (10%), Cpy (trace) Blebby, coarse grained, smooth	Mod	
D00015906		Py (5%) cpy (trace) finely disseminated	No	
D00015564	QSPC	Py 6% dis'd Cpy 0.1% dis'd	No	
D00015584		Disseminated py 2% cpy? Tr	No	
D00015510	Silica	Py (5%) vein hosted (Qz5, Py95) and also found fine and disseminated outside of veins	Mod	
D00015529		Py (8%), fine, disseminated, smooth throughout	Weak to Mod	
D00015550		disseminated cpy found in veins	No	
D00014538		Mt 1%; Py 3%	Mod	82->111 vein
D00015515		Py (8%), Cpy (trace). Fine, disseminated and smooth. Coarser grained Py localized in fractures.	Weak to Mod	
D00015907		Py (5%) mediumed grained and disseminated. Cpy (trace)	Weak	
D00015559		Py 7% dis'd; Cpy 0.1% dis'd	No	
D00015553	QSP	Py 8% dis'd Cpy 0.2% dis'd	No	
D00015605	Potassic	Diss/Vn hosted Py (10%), Cp(0.3%)	No	

SAMPLE #	NOTES
D00015532	Siderite vein intruded bleached QSP
D00015578	High T chaotic veins in P2, centerline cpy, 5% veins discontinuous, Mt 1%, no altn halo, photo view west. Outer extent of core altn, likely transitional with albitic, deep green chl. Eastern extent of stockwork zone. Py6%Cpy 0.3%.
D00015909	stockwork xenolith outcrop. Sulphides prefer to be in periphery of veins instead of inside vein.
D00015523	grey green altered diorite. No phenocryst. Quartz vein with sulphide centre line. Possible relict potassic with partial QSP overprint. Black replacement masses after hnbl intergrown with cpy. Black minerals intergrown with steel blue magnetite (likely secondary biotite). Magnetite with veins.
D00015567	1 m wide stockwork zone of qz-ank-bar-cal-py-cpy-sph semi brittle textures, angular clasts + bx, silicified halo, interpret to cut phyllic due to shallower vein textures, subtle dextral reidels 64->330, Low T epithermal
D00015612	Grab sample from QSPC altered diorite with 10% qtz veining (mineralized). Vn/diss sulfides. Si35Chl5Py10CpTrAlb1.
D00015511	light grey green QSP
D00015669	Grab sample from Bonnie Bx. Pouring rain out. Dis'd and vn hosted sulfides.
D00014531	Silica alteration 20% pervasive contact replacement. Silt-tuff contact zone with hb diorite; hornfelsed concoidal fracture
D00015672	Area of quartz stockwork in P2 diorite. 10% primary quartz veins with finely distributed Py and Cp. QSPC overprint. 3% finely disseminated Py in groundmass.
D00015576	Intensely altered andesite tuff. Pervasive silica 25% Ser 10% Chl 10 % Py Tr Cpy Tr Tet Tr pink cal 5 outcrop
D00015506	light grey green, intensely altered diorite
D00015906	altered diorite
D00015564	relict porphyritic, locally clastic. Early albitic (?) overprinted by QSPC. Sil 40 Alb 5 Chl 8 Py 6 Cp 0.1 Ser 5
D00015584	altered andesite ?tuff, pervasive, footwall-type alteration assemblage; Sil20% Chl 5% Mng cal 5% Py 2% Ser 10%
D00015510	lighty grey green intense QSP
D00015529	Grey, moderately bleached QSP
D00015550	vein abundance around 7%
D00014538	Green volcaniclastic basalt; jigsaw fit milky qz HT vein (epithermal), extremely finely dis'd py near vein. Mt 1%; 3% py
D00015515	grey green altered QSP
D00015907	inside veins py minerals seem to have net texture and not appear as a center line
D00015559	Pale green, faintly phyric porphyritic diorite. Sil45Chl8Ser5Py7Cpy0.1Mt0. QSPC alteration
D00015553	Pale green, medium-grained diorite. Early Chl-sil-cpy-alb (potassic/transitional potassic?) overprinted by qz-ser-py, Sil45Chl5Py8Alb5Cp0.2Mt0Cb0. 15% qz stwk locally
D00015605	Grab sample from QSPC altered diorite on edge of stockwork body. Finely disseminated sulfides and 3% mineralized Qtz veins. Si35Chl5Py10Cp0.3Tour2

SAMPLE #	East	North	SAMPLE TYPE	ROCK DESCRIPTION	LITH	COLOUR	ALT 1
D00015513	475808	6167079	Grab	Outcrop	Jr Drt	dark grey	QSP
D00015520	476046	6166998	Grab	Outcrop	Jr Drt	grey green	QSPC
D00015628	476088	6167024	Grab	Outcrop	Jr Drt	Green	QSPC
D00015673	476290	6166427	Grab	Outcrop	Jr Drt	Green	QSPC
D00015542	477839	6166981	Grab	Outcrop	Jr Drt	grey	QSPC
D00014549	475856	6167168	Grab	Outcrop	Jr Drt	Deep green	Potassic
D00015901	477579	6166052	grab	Outcrop	Jr Drt	grey	QSP
D00014533	475776	6167215	Grab	Outcrop	Jr Drt	White	Silica
D00015514	475813	6167016	Grab	Outcrop	Jr Drt	dark grey green	QSPC
D00015554	475837	6166920	Grab	Outcrop	Jr Drt	Pale green	QSPC
D00015620	475608	6166884	Grab	Outcrop	Jr Drt	Green	Albitic
D00014544	475988	6167184	Grab	Outcrop	Jr Drt	White	QSP
D00015601	476304	6166841	Rep Grab	Outcrop	Jr Drt	Green	QSPC
D00015450	475860	6167171	Grab	Outcrop	Jr Drt	Deep green	Potassic
D00015528	475889	6166864	Grab	Outcrop	Jr Drt	grey green	QSPC
D00015533	475801	6167417	Grab	Outcrop	Jr Drt	dark green	QSPC
D00015633	476629	6166706	Rep Grab	Outcrop	Jr Mnz	Green	
D00015674	476964	6165200	Rep Grab	Outcrop	Jr Drt	Green	QSPC
D00015575	481270	6164598	Grab	Outcrop	Fel	Green	Silica
D00015583	482274	6161339	Grab	Outcrop	And		

SAMPLE #	ALT 2	MINERALIZATION	MAGNETISM	STRUCTURE
D00015513		Py predominately vein hosted (Py90, Qz10) with some disseminated and patchy areas (Py 4%). Trace Cpy	Weak	
D00015520		Py (10%), Cpy (trace) Blebby, coarse grained, smooth	Mod	
D00015628		Finely diss smooth Py (7%), Cp (0.3%) and CuOX (0.1%)	No	
D00015673		Finely diss Py (1%) and vein hosted Py (0.1%) and Cp (0.1%)	No	
D00015542		disseminated cpy (0.2%) Relict cpy with chlorite. Disseminated Py (10%)	No	
D00014549		Py 0.5% dis'd, Cpy 0.6% dis'd and with veins	Mod	80->320, qz-sulphide, 2 mm
D00015901		cpy (0.3%), py (0.5%) fine disseminated	No	
D00014533	QSP	Dis'd Py 8%; Cpy1 dis'd	No	
D00015514		Py (5%), Cpy (0.3%), trace malachite. Disseminated fine pyrite with some local coarser grained patches. Cpy mottled and net textured in small patches.	Mod to strong	
D00015554		Py 10%, Cp 0.1%	No	80->075
D00015620	Potassic	Diss Py (7%), Cp (0.2%)	Mod	
D00014544		Py 10%; Cpy 0.05% dis'd	No	74->063
D00015601		Diss Py (10%), Cp(0.05%)	No	
D00015450		Py 0.5% dis'd, Cpy 0.6% dis'd and with veins	Mod	80->069, qz-sulphide, 2 mm
D00015528		Py (9%), Cpy (trace) disseminated, smooth, super fine	Weak	
D00015533		Py (4%) fine disseminated, mottled sulphides. Not consistent throughout outcrop	Weak	
D00015633		Fine and coarse diss Py (3.5%), trace diss Cp, and Py stringers (0.5%)	Strong	
D00015674		Finely diss Py (4%) and rare fine medial Py in veins (0.2%)	No	
D00015575		Vein hoste3d black and pale red sph tr, cpy trace	No	70->063
D00015583				

SAMPLE #	NOTES
D00015513	dark grey intensely altered QSP
D00015520	grey green altered diorite
D00015628	2% Qtz stockwork zone with strong QSPC. Finely disseminated smooth sulfides. Si35Chl7Py7Cp0.3CuOX0.1
D00015673	Area of quartz stockwork in P2 diorite. 7% primary quartz veins with finely distributed Py and Cp. QSPC overprint. 1% finely disseminated Py in groundmass.
D00015542	Bonnie breccia clast supported. Hydrothermal matrix near contact with P3 diorite. Alteration intense QSPC overprinting earlier Qz cpy alb (?). Intense qsp downgraded. Textural destruction
D00014549	Previous samples caught mal on late qz-barite vein and failed to sample the early porphyry mineralization. Faintly porphyritic deep green drt. Sil35Chl10Mt2Bt/Kf?Py0.5Cpy0.6. Transitional potassic/potassic, 5-8% veining, no halos, medial sulphide, core to phyllic altn near lake. Strong mt.
D00015901	
D00014533	Outcrop representative of mineralization in area. QSP overprinting faintly porphyritic hb drt. Sil30Ser10Chl5Py8Cpy1To?; Resembles late Qz-Cb-py-sph-gal veins in East Bonnie
D00015514	dark grey green intensely altered QSP
D00015554	Grey-white-green/pale green, faintly porphyritic drt. 7% qz veins 80->075 most thin 2-4 mm, multiple orientations Sil45Chl5Ser5Py10Cpy0.1. phyllic overprint strong gossan in phyllic rocks
D00015620	Grab sample from Alb/Pot boundary. Si30Alb20Chl5Py7Cp0.2MtTr. Transitional Pot alteration with 5% Qtz veining. East side of fault.
D00014544	7% qsp veins stockworked/sheeted, tourmaline halos to veins; 7% qsp veins , many sheeted 74->063
D00015601	Strongly silicified diorite with QSPC Alt. Non magnetic. 5% Qtz veining with tr maganese. Finely diss sulfides. 0.5% kahki coloured anhydrite. Si35Chl5Py10Cp0.05Anh0.5
D00015450	Faintly porphyritic deep green drt. Sil35Chl10Mt2Bt/Kf?Py0.5Cpy0.6. Transitional potassic/potassic, 5-8% veining, no halos, medial sulphide, core to phyllic altn near lake. Strong mt.
D00015528	Grey altered diorite
D00015533	dark green QSP
D00015633	Sample of post mineral monzonite mainly for contact/geological information. Sample representative of island. Si20Kspar10Mt4Py4CpTrChl5Epi2. Unaltered. 3% quartz veining
D00015674	QSPC altered green diorite. Area of early quartz stockwork veining (10-15%) but sample only contains 5% veining. Rare medial Py in veins and finely disseminated Py in groundmass.
D00015575	HT vein 20 cm wide. In vein Qz 80 Cal 5 Black Sph 1 Pale Red Sph Tr Chl 5 Cpy Tr. Vermicular green chl in euhedral qz grains. Rock crowded feld porphyry +qz eyes (?dacite) pervasive silica 15, ilmenite 2, chl 8 cal 5.
D00015583	Volcaniclastic andesite breccia, maroon-green, disseminated tr pyritre

SAMPLE #	East	North	SAMPLE TYPE	ROCK DESCRIPTION	LITH	COLOUR	ALT 1
D00015518	475772	6166815	Grab	Outcrop	Jr Drt	light grey	QSP
D00015569	475644	6167117	Grab	Outcrop	Jr Drt	White	Albitic
D00015610	476323	6166824	Rep Grab	Outcrop	Jr Drt	Green	Silica
D00015635	476643	6166715	Grab	Outcrop	Jr Mnz	Green	
D00015563	475698	6166895	Grab	Outcrop	Jr Drt	White	Albitic
D00015637	476635	6166744	Grab	Outcrop	Jr Mnz	Green	
D00015671	476239	6166461	Grab	Outcrop	Jr Drt	Pale	QSP
D00014540	475872	6167254	Grab	Outcrop	Jr Drt	Green	QSPC
D00014541	475901	6167239	Grab	Outcrop	Jr Drt	Deep Green	QSPC
D00014548	475869	6167160	Grab	Outcrop	Jr Drt	Green	Potassic
D00015501	475869	6167310	Grab	Outcrop	Jr Drt	green	QSPC
D00015526	475782	6167024	Grab	Outcrop	Jr Drt	light grey	QSP
D00015908	476961	6165817	Rep Grab	Outcrop	Jr Drt	grey	QSP
D00014546	476075	6167184	Grab	Outcrop	Jr Drt	Green	QSP
D00015503	475827	6167260	Grab	Outcrop	Jr Drt	dark green	QSPC
D00015636	476653	6166708	Grab	Outcrop	Jr Mnz	Green	
D00015586	482420	6166609	Grab	Outcrop	Sed	Brown	Phyllic
D00015522	475891	6167346	Grab	Subcrop	Jr Drt	dark green grey	QSPC
D00015557	475741	6166841	Grab	Outcrop	Jr Drt	Pale green	QSPC
D00015509	476084	6167155	Grab	Outcrop	Jr Drt	dark grey	QSPC
D00014535	475517	6167186	Grab	Outcrop	Jr Drt	Pale green	QSPC
D00015905	476462	6166408	grab	Outcrop	Jr Drt	green	QSPC
D00015517	475753	6166891	Grab	Outcrop	Jr Drt	Dark grey	QSP
D00015619	476244	6166466	Grab	Outcrop	Jr Drt	White	Albitic
D00015910	475645	6166228	Rep Grab	Outcrop	And	grey	QSP

SAMPLE #	ALT 2	MINERALIZATION	MAGNETISM	STRUCTURE
D00015518		Py (10%) Cpy (trace) Super fine disseminated and smooth	Weak	
D00015569	QSP	4% Py, 0.01% Cpy selective replacement	Mod	
D00015610	QSPC	Vein hosted pyrite (7%) and Cp (Tr).	No	
D00015635		Finely diss Cp (0.5%)	Mod	
D00015563	QSPC	Pods of py 1% and cpy 0.2% replacements (?)	Weak	
D00015637		Finely diss Py (5%) and Cp (0.1%)	Weak	
D00015671	Albitic	Finely diss Py (1%) and Cp (trace). Cp (trace) in veining	No	
D00014540		Py 3% dis'd; cpy 0.2% dis'd	No	
D00014541		Py 4% Cpy Tr disseminated	No	
D00014548	QSP	Py medium-grained, subhedral 2%, cpy 0.5%, Mal tr	Mod	
D00015501		Py (3%), Cpy (0.2%) Smooth, fine and disseminated	strong	
D00015526		Py (8%), fined to medium grained, disseminated and smooth	Weak to Mod	
D00015908		mottled Py (6%), cpy (trace)	No	
D00014546	Albitic	Py 7 %, Cpy Tr dis'd	No	78->220
D00015503		Py (9%), Cpy (0.6%) Bleccy, coarse grained, disseminated	Mod	
D00015636		Diss Py (2%) and Cp (0.4%	Mod	
D00015586		py 8% dis'd	No	
D00015522		Py (8%), Cpy (trace) Chunky/blebbly. Medium grained and disseminated	Weak	
D00015557		Py 5%; Cp 0.1% dis'd	No	
D00015509		Py (8%) smooth, disseminated, fine grained	Weak	
D00014535		3% dis'd py; tr Dis'd Cpy	Mod	
D00015905		Py (3%) medium grained clusters in veins but mostly disseminated. Cpy (0.1%) finely disseminated	No	
D00015517		Py (9%), Cpy (trace) Very fine, disseminated and smooth	Weak	
D00015619		Diss Py (6%) and Cp (Tr).	No	
D00015910		Py (5%) disseminated trace cpy	No	

SAMPLE #	NOTES
D00015518	slightly gaussinous outcrop. Grey bleached moderately altered QSP
D00015569	Subtle clastic texture ibx drt. Intense, mottled albite 20 Sil 20 Chl 15 Ep 2 Py 4 Cpy 0.01 Mt 0.5. Deep, hot, albite altn +ep, sulphide selective replacement
D00015610	Representative grab sample from Qtz vein (80% qtz with diss py and Bx clasts. Bx hbas angular qtz vein clasts but is healed with tourmaline and pyrite, and potential albite/white orthoclase? Si70Alb5Py7CpTrTour3
D00015635	Sample of monzonite. Likely post mioneral but near diorite contact. 0.5% finely disseminated Cp often intergrown with magnetite. Located near dark green xenolith. Si20Kspar10Mt3Cp0.5
D00015563	White, altered rock (?por) extremely hard high cpy:py, chl stable, buff white, epidote, magnetite. Alb 40 Sil 20 Py 1 Cpy 0.3 Chl4 Ep 0.5 Mt 1
D00015637	Sample of monzonite near contact of clsasts of quartz veins (impossible to sample wihtout rock saw). Finely disseminated Py and Cp. 2% quartz veining. Si20Kspar10Mt1Py5Cp0.1
D00015671	Pale diorite with QSP overprint of primary albitic alteration. 10% quartz veining with trace associated Cp. Finely disseminated Py and Cp.
D00014540	representative of mineralization in area. Green faintly porphyritic diorite Sil35Py3Cpy0.2Chl7Ser10Mt0. even dissemination w clotty, coarser py
D00014541	Deep green faintly porphyritic drt; Sil25Py4Chl8Ser5Mt0; even, coarse dis'n of py>>cpy
D00014548	Green diorite porphyry, 3% veins (unknown geometry), Sil 35Chl8Ser5Mt1Ep0. Py medium-grained, subhedral 2%, cpy 0.05%, Mal tr
D00015501	greenish faint/relict phenos of medium grained hornblende and plagioclase. Altered diorite porphyry
D00015526	light grey bleached diorite
D00015908	barely any sulphides in veins. Mostly disseminated outside of veins.
D00014546	Some sloppy veins, disarticulated, semi-sheeted. Relict chl-ep-py-?alb overprinted by QSP veins Sil35EpTrPy7Ser10CpyTrToTr; early qz-chl veins 78->220. Veins are qz, medial py-cpy, chl selvages HighT vein.
D00015503	Dark green intensely altered diorite. Milky quartz around 10mm coarse grained.
D00015636	Monzonite porphyry with 2% disseminated Py and 0.4% disseminated Cp. 2% quartz veining. Si20Kspar10Mt3Cp0.4Py2
D00015586	intensely altered argillite, pervasive silica 30% extremely fine pyrite 8%; calcite 0%, chl 5%, Ser 10% very oxidized, does not appear to have cpy
D00015522	Dark green/grey altered diorite
D00015557	Pale green, m-g crowded drt porphyry. Sil40Chl5Ser7Py5Cp0.1Mt0
D00015509	dark grey/green heavilty altered QSP
D00014535	Outcrop representative of mineralization in area. Crowded, m-g drt porphyry in o/c; finely dis'd py-cpy; Sil30Ser10Chl5Py3CpyTrMt1. Mt may reflect an earlier propylitic/albitic alteration
D00015905	stockwork veining clast in P3
D00015517	dark grey moderately altered QSP
D00015619	Grab sample from strongly albite altered dioprite. Si25Alb25PyCpTr. Finely disseminated sulfifdes.
D00015910	rep grab sample over 5m

SAMPLE #	East	North	SAMPLE TYPE	ROCK DESCRIPTION	LITH	COLOUR	ALT 1
D00014542	475912	6167167	Grab	Outcrop	Jr Drt	Green	QSPC
D00015531	476100	6166827	Grab	Outcrop	Jr Drt	grey	QSP
D00015558	475865	6166876	Grab	Outcrop	Jr Drt	Pale green	QSPC
D00015516	475673	6166983	Grab	Outcrop	Jr Drt	grey green	QSP
D00015585	482339	6161358	Grab	Subcrop	And	Green	Phyllic
D00015507	475987	6167157	Grab	Outcrop	Jr Drt	light grey	QSP
D00015556	475726	6166892	Grab	Outcrop	Jr Drt	White	QSP
D00015519	475796	6166771	Grab	Outcrop	Jr Drt	light grey	QSP
D00015530	476075	6166859	Grab	Outcrop	Jr Drt	light grey	QSP

SAMPLE #	ALT 2	MINERALIZATION	MAGNETISM	STRUCTURE
D00014542		Py 4% , Cpt Tr dis'd	No	
D00015531		Py (8%), Cpy (trace) vein controlled	Weak	
D00015558		Py 3%; Cpy 0.1% dis'd	No	
D00015516		Py (8%), Cpy (trace) Very finely disseminated and smooth	Weak	
D00015585		pyrite dis'd 2%	No	
D00015507		Py (7%) predominately vein controlled but also are found as disseminated patches.	Mod	
D00015556		Py 10% Cp 0.1% dis'd	No	
D00015519		Py (8%) Fine disseminated and smooth. Patchy areas where Py is medium grained.	Weak	
D00015530		Py (6%), Cpy (trace) Disseminated, smooth, very fine	No	

SAMPLE #	NOTES
D00014542	representative of broader mineralization. Green, crowded drt por. Sil20Chl2Py4Ser5Mt0CpyTr in QSPC alteration.
D00015531	Grey stockwork QSP
D00015558	Pale green faintly porphyritic drt. Sil50Chl10Ser8Py3Cpy0.1Mt0 QSPC patchy bleached QSP intervals
D00015516	slightly bleached grey/green QSP
D00015585	Fine grained andesite, silica 5%, Ser 10% Ser 10% Manganoan carbonate 5% pyrite 2%
D00015507	light grey intensely altered diorite
D00015556	White, textureless, granular, alt'd rock faintly porphyritic, no clear veins, Sil60Ser10Py10Cp0.1Mt0
D00015519	grey slightly bleached QSP
D00015530	light grey QSP

SAMPLE #	East	North	SAMPLE TYPE	Width	Energy
D00015801	480645	6164992	Silt	1m	High
D00015802	480529	6164840	Silt	1m	High
D00015803	480897	6164861	Silt	3m	High
D00015804	481183	6164630	Silt	3m	High
D00015805	480798	6165003	Silt	1m	High

Certificate of Analysis
Work Order : VC172274
[Report File No.: 0000026624]

Date: December 14, 2017

To: **George Cavey**
OK2 MINERALS LTD
SUITE 1780-400 BURRARD ST
VANCOUVER BC V6C 3A6

P.O. No.: Kinskuch17-01 / 119 samples
Project No.: KINSKUCH
Samples: 43
Received: Jul 27, 2017
Pages: Page 1 to 15
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
43	G_LOG02	Pre-preparation processing, sorting, logging, boxing
43	G_WGH79	Weighing of samples and reporting of weights
43	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
43	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
43	GE_IC14A	Aqua Regia digestion/ICP-AES finish
43	GE_IC14M	Aqua Regia digestion/ICP-MS finish
6	GO_ICP13B	Ore Grade, Aqua Regia Diges/ICP-AES
12	GE_CSA06V	Total Sulfur and Total Carbon, Leco Method
1	GO_XRF77B	Pyrosulphate fusion, XRF Base Metal package (0.2g)

Storage: Pulp & Reject

REJECT STORAGE	:	PAID STORE AFTER 30 DAYS
PULP STORAGE	:	PAID STORE AFTER 90 DAYS

Comments:

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

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

Final : VC172274 Order: Kinskuch17-01 / 119 samples

Report File No.: 0000026624

Element	WtKg	@Au	@Ag	@Al	@Ba	@Ca	@Cr	@Cu
Method	G_WGH79	GE_FAA313	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	5	0.01	0.01	5	0.01	1	0.5
Units	kg	ppb	ppm	%	ppm	%	ppm	ppm
D00015572	1.155	71	0.71	3.00	133	3.51	13	3400
D00015601	1.520	89	0.27	1.13	363	3.69	4	999
D00015602	1.525	213	0.98	0.93	191	4.35	4	3800
D00015603	1.250	378	1.08	2.00	176	2.23	7	5970
D00015604	1.150	1090	1.39	0.50	40	3.40	4	2480
D00015605	0.810	58	0.32	1.61	90	1.86	6	795
D00015606	1.215	87	0.70	2.96	300	3.63	12	3840
D00015607	1.035	319	1.30	1.71	107	3.04	5	5400
D00015608	1.350	197	0.84	2.70	288	2.26	9	4640
D00015609	1.040	258	1.02	3.21	215	3.16	6	5640
D00015610	0.940	67	0.24	0.31	95	7.31	4	173
D00015611	1.300	159	0.62	0.93	139	3.85	5	2270
D00015612	1.465	52	0.47	1.02	81	2.33	4	423
D00015613	1.135	100	1.66	0.60	72	5.43	2	5910
D00015614	0.840	125	0.69	0.57	49	5.15	4	812
D00015615	0.700	2390	3.38	0.04	41	0.32	3	>10000
D00015616	0.535	2700	13.3	0.30	43	4.93	<1	>10000
D00015617	0.865	486	1.08	0.78	55	2.57	3	1120
D00015618	0.875	946	3.03	1.18	45	1.86	4	4570
D00015619	0.815	29	0.11	0.34	75	2.54	3	318
D00015620	0.515	85	0.28	1.62	118	0.77	7	587
D00015621	0.925	290	2.31	1.76	49	0.56	5	9410
D00015622	0.955	834	5.38	2.06	50	0.36	9	>10000
D00015623	0.905	66	0.74	2.08	106	1.84	15	3130
D00015624	1.070	2020	9.31	2.16	163	1.30	5	>10000
D00015625	0.775	470	0.96	1.65	101	3.59	6	3440
D00015626	1.790	187	1.31	1.04	64	2.58	3	2230
D00015627	1.365	114	1.09	1.35	48	2.36	4	530
D00015628	1.635	55	0.31	2.79	183	3.20	9	805
D00015629	2.165	80	0.62	2.34	174	1.47	8	2040
D00015630	1.255	303	1.04	2.38	152	3.34	8	3070
D00015631	1.935	2840	6.74	2.13	67	1.98	5	>10000
D00015632	2.190	780	2.51	0.60	45	4.50	5	3290
D00015633	1.430	100	0.26	4.25	45	2.05	21	239
D00015634	1.835	487	0.91	1.07	448	4.62	10	5840
D00015635	1.345	69	0.24	1.13	1040	4.64	14	993
D00015636	2.280	86	0.20	1.23	428	5.74	6	807
*Dup D00015636	N.A.	88	0.21	1.16	394	5.97	5	864
D00015637	1.580	41	0.23	2.01	362	4.10	11	339
D00015638	1.380	515	5.93	0.33	47	0.66	3	>10000

Final : VC172274 Order: Kinskuch17-01 / 119 samples

Report File No.: 0000026624

Element	WtKg	@Au	@Ag	@Al	@Ba	@Ca	@Cr	@Cu
Method	G_WGH79	GE_FAA313	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	5	0.01	0.01	5	0.01	1	0.5
Units	kg	ppb	ppm	%	ppm	%	ppm	ppm
D00015639	2.055	342	1.27	3.70	115	3.46	12	6650
D00015640	1.310	38	2.10	0.58	73	3.67	5	4470
D00015641	2.965	48	1.21	3.97	156	3.67	6	4130
D00015642	2.245	225	1.63	0.49	59	1.64	7	6160
*Rep D00015601			0.28	1.17	402	3.79	4	1030
*Rep D00015625			0.93	1.72	98	3.66	6	3610
*Std OREAS503B			1.49	1.98	341	1.20	82	5440
*Blk BLANK			<0.01	<0.01	<5	<0.01	<1	<0.5
*Rep D00015613		98						
*Rep D00015639		307						
*Std OREAS222		1230						
*Std AMIS0474		176						
*Blk BLANK		<5						

Element	@Fe	@K	@Li	@Mg	@Mn	@Na	@Ni	@P
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.01	1	0.01	2	0.01	0.5	0.01
Units	%	%	ppm	%	ppm	%	ppm	%
D00015572	7.40	0.21	36	2.64	632	0.03	6.5	0.13
D00015601	4.64	0.27	16	1.30	1110	0.03	4.2	0.14
D00015602	4.96	0.34	10	1.35	1240	0.03	5.2	0.13
D00015603	6.40	0.23	35	1.63	748	0.04	6.3	0.14
D00015604	11.0	0.27	2	0.93	954	0.02	5.8	0.08
D00015605	6.70	0.19	28	1.61	859	0.04	6.1	0.14
D00015606	6.61	0.25	56	1.83	958	0.02	4.7	0.10
D00015607	6.94	0.24	28	1.34	981	0.02	5.7	0.11
D00015608	7.84	0.29	38	1.89	1000	0.02	5.7	0.11
D00015609	9.39	0.22	42	2.34	923	0.02	7.4	0.12
D00015610	5.24	0.19	1	1.99	1690	0.02	4.4	0.06
D00015611	4.27	0.28	13	1.82	879	0.03	5.7	0.13
D00015612	5.18	0.37	11	0.66	670	0.02	6.6	0.13
D00015613	5.14	0.21	5	0.43	716	0.02	7.7	0.09
D00015614	7.27	0.29	3	0.29	651	0.02	5.5	0.11
D00015615	7.83	0.01	<1	0.04	205	0.01	20.8	<0.01
D00015616	>15.0	<0.01	3	0.17	1030	0.01	34.7	0.10
D00015617	7.06	0.21	6	0.35	536	0.02	7.7	0.13
D00015618	9.16	0.25	14	0.81	1740	0.01	6.5	0.12
D00015619	3.16	0.26	<1	0.82	636	0.02	2.5	0.02
D00015620	5.61	0.43	14	0.99	869	0.02	6.4	0.12
D00015621	9.75	0.16	17	1.32	507	0.05	18.5	0.10
D00015622	11.0	0.23	20	1.42	482	0.05	32.6	0.14
D00015623	5.93	0.31	27	1.78	1460	0.03	9.4	0.14
D00015624	7.70	0.33	18	0.86	1800	0.01	6.4	0.10
D00015625	6.55	0.32	15	0.97	1350	0.02	3.7	0.10
D00015626	6.10	0.43	6	0.28	768	0.01	4.6	0.14
D00015627	7.79	0.27	12	1.06	822	0.01	5.5	0.12
D00015628	6.30	0.42	26	1.90	1510	0.02	5.6	0.14
D00015629	5.15	0.28	23	1.76	687	0.04	5.3	0.15
D00015630	6.72	0.47	23	1.54	1240	0.02	4.5	0.12
D00015631	9.50	0.21	17	0.87	793	0.01	5.9	0.05
D00015632	9.10	0.32	3	0.39	1330	0.01	3.7	0.09
D00015633	9.65	0.24	55	3.16	2370	0.02	5.9	0.15
D00015634	4.97	0.42	7	1.43	1110	0.01	5.8	0.13
D00015635	4.98	0.34	7	2.01	1210	0.03	4.8	0.15
D00015636	5.47	0.40	13	1.54	1190	0.01	5.7	0.14
*Dup D00015636	5.44	0.34	13	1.56	1200	0.01	5.3	0.14
D00015637	5.65	0.33	25	1.93	1170	0.02	5.7	0.14
D00015638	7.02	0.23	<1	0.06	120	0.01	5.9	0.08

Final : VC172274 Order: Kinskuch17-01 / 119 samples

Report File No.: 0000026624

Element	@Fe	@K	@Li	@Mg	@Mn	@Na	@Ni	@P
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.01	1	0.01	2	0.01	0.5	0.01
Units	%	%	ppm	%	ppm	%	ppm	%
D00015639	9.51	0.13	50	2.39	699	0.02	5.3	0.09
D00015640	5.67	0.33	2	1.01	1510	0.02	3.4	0.14
D00015641	8.59	0.20	54	2.89	901	0.01	3.7	0.16
D00015642	5.66	0.29	1	0.10	269	0.02	5.6	0.09
*Rep D00015601	4.78	0.28	16	1.34	1140	0.03	4.2	0.14
*Rep D00015625	6.70	0.33	17	0.98	1400	0.02	3.5	0.10
*Std OREAS503B	5.02	0.96	31	1.29	402	0.17	35.7	0.10
*Blk BLANK	<0.01	<0.01	<1	<0.01	<2	<0.01	<0.5	<0.01

Element	@S	@Sr	@Ti	@V	@Zn	@Zr	@As	@Be
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.5	0.01	1	1	0.5	1	0.1
Units	%	ppm	%	ppm	ppm	ppm	ppm	ppm
D00015572	2.96	65.9	<0.01	115	68	<0.5	11	0.4
D00015601	1.12	57.4	<0.01	39	42	<0.5	12	0.3
D00015602	2.14	57.7	<0.01	25	35	<0.5	7	0.3
D00015603	2.27	43.4	<0.01	62	62	<0.5	10	0.4
D00015604	>5.00	43.7	<0.01	18	17	<0.5	80	0.2
D00015605	4.25	33.0	<0.01	72	61	<0.5	17	0.3
D00015606	0.73	55.9	<0.01	77	83	<0.5	3	0.4
D00015607	3.19	52.3	<0.01	52	49	<0.5	15	0.4
D00015608	1.13	43.4	<0.01	103	82	<0.5	6	0.4
D00015609	1.19	45.1	<0.01	134	108	<0.5	3	0.4
D00015610	3.60	107	<0.01	12	14	<0.5	26	0.2
D00015611	2.65	58.2	<0.01	49	33	<0.5	8	0.3
D00015612	4.02	34.9	<0.01	24	23	<0.5	4	0.3
D00015613	>5.00	94.0	<0.01	15	15	0.6	17	0.4
D00015614	>5.00	82.0	<0.01	17	7	<0.5	42	0.2
D00015615	>5.00	5.2	<0.01	16	4	<0.5	42	<0.1
D00015616	4.04	81.8	0.02	853	22	<0.5	10	<0.1
D00015617	>5.00	71.3	<0.01	25	27	0.9	156	0.3
D00015618	>5.00	37.3	<0.01	42	2030	<0.5	37	0.4
D00015619	2.06	46.7	<0.01	10	10	<0.5	8	0.4
D00015620	2.87	18.7	<0.01	59	45	<0.5	13	0.5
D00015621	>5.00	16.4	<0.01	111	44	<0.5	14	0.3
D00015622	>5.00	11.5	<0.01	158	53	<0.5	47	0.3
D00015623	2.79	32.2	<0.01	103	58	<0.5	23	0.4
D00015624	2.26	21.4	<0.01	52	105	<0.5	25	0.4
D00015625	3.75	69.4	<0.01	60	56	<0.5	21	0.3
D00015626	4.96	27.9	<0.01	28	47	<0.5	66	0.3
D00015627	>5.00	64.4	<0.01	44	38	<0.5	50	0.2
D00015628	1.85	54.7	<0.01	86	67	<0.5	3	0.4
D00015629	1.23	38.0	<0.01	74	72	<0.5	4	0.4
D00015630	2.22	50.5	<0.01	67	48	<0.5	7	0.3
D00015631	1.92	46.4	<0.01	105	91	<0.5	6	0.2
D00015632	>5.00	63.1	<0.01	14	20	<0.5	205	0.2
D00015633	1.36	31.5	<0.01	226	78	<0.5	48	0.4
D00015634	0.93	138	<0.01	59	40	<0.5	2	0.4
D00015635	0.44	220	<0.01	99	50	<0.5	2	0.3
D00015636	1.03	118	<0.01	56	27	<0.5	6	0.4
*Dup D00015636	1.07	119	<0.01	51	26	<0.5	6	0.4
D00015637	1.03	86.6	<0.01	70	75	<0.5	9	0.5
D00015638	>5.00	12.1	<0.01	12	<1	<0.5	13	0.1

Final : VC172274 Order: Kinskuch17-01 / 119 samples

Report File No.: 0000026624

Element	@S	@Sr	@Ti	@V	@Zn	@Zr	@As	@Be
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.5	0.01	1	1	0.5	1	0.1
Units	%	ppm	%	ppm	ppm	ppm	ppm	ppm
D00015639	3.04	76.4	<0.01	134	115	<0.5	18	0.2
D00015640	4.75	54.9	<0.01	36	23	0.5	30	0.3
D00015641	2.55	103	<0.01	120	149	0.6	31	0.3
D00015642	>5.00	34.6	<0.01	15	8	<0.5	13	0.2
*Rep D00015601	1.16	59.4	<0.01	40	43	<0.5	12	0.3
*Rep D00015625	3.79	68.9	<0.01	61	55	<0.5	22	0.3
*Std OREAS503B	0.67	76.0	0.33	123	79	11.3	16	0.5
*Blk BLANK	<0.01	<0.5	<0.01	<1	<1	<0.5	<1	<0.1

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga	@Ge	@Hf
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.02	0.01	0.05	0.1	0.05	0.1	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015572	0.42	0.05	9.00	9.0	1.69	9.3	<0.1	<0.05
D00015601	0.12	0.06	11.3	9.5	2.21	2.7	<0.1	<0.05
D00015602	0.20	0.06	6.77	18.1	2.16	2.0	<0.1	<0.05
D00015603	0.12	0.04	8.34	26.8	2.10	5.8	<0.1	<0.05
D00015604	1.29	0.06	5.76	27.6	1.03	1.1	<0.1	<0.05
D00015605	0.16	0.04	5.85	21.6	1.54	4.9	<0.1	<0.05
D00015606	0.04	0.04	13.4	11.6	1.46	7.5	<0.1	<0.05
D00015607	0.33	0.05	8.70	27.2	1.85	5.2	<0.1	<0.05
D00015608	0.11	0.04	10.7	12.5	2.42	8.0	<0.1	<0.05
D00015609	0.03	0.04	9.24	27.1	2.07	8.3	<0.1	<0.05
D00015610	0.34	0.05	4.80	14.0	0.93	0.7	<0.1	<0.05
D00015611	0.13	0.04	8.36	28.9	2.78	2.4	<0.1	<0.05
D00015612	0.27	0.04	6.09	12.2	2.37	2.1	<0.1	<0.05
D00015613	0.55	0.11	7.76	22.0	2.11	1.1	<0.1	<0.05
D00015614	0.55	0.06	5.35	17.1	1.49	1.1	<0.1	<0.05
D00015615	0.68	0.10	2.37	20.4	<0.05	0.4	<0.1	<0.05
D00015616	0.58	0.27	11.5	16.9	<0.05	25.4	0.7	<0.05
D00015617	0.25	0.10	4.96	17.4	2.05	1.5	<0.1	<0.05
D00015618	3.98	11.5	5.31	17.0	2.32	2.7	<0.1	<0.05
D00015619	0.31	0.06	2.01	8.6	2.95	0.5	<0.1	<0.05
D00015620	0.37	0.10	11.5	13.5	2.57	4.4	<0.1	<0.05
D00015621	2.20	0.04	8.45	73.8	1.60	5.6	<0.1	<0.05
D00015622	2.56	0.15	11.6	56.6	2.04	6.5	<0.1	<0.05
D00015623	0.75	0.07	14.2	15.9	2.50	5.5	<0.1	<0.05
D00015624	0.51	0.20	16.3	8.5	2.10	5.3	<0.1	<0.05
D00015625	0.17	0.03	10.2	18.2	1.30	5.0	<0.1	<0.05
D00015626	0.78	0.15	14.3	9.7	2.13	2.4	<0.1	<0.05
D00015627	0.51	0.07	8.00	21.8	1.33	3.8	<0.1	<0.05
D00015628	0.06	0.03	16.3	20.9	1.80	7.1	<0.1	<0.05
D00015629	0.13	0.03	14.8	16.8	1.53	7.7	<0.1	<0.05
D00015630	0.41	0.04	15.4	17.7	1.82	7.6	<0.1	<0.05
D00015631	0.28	0.14	5.91	8.1	0.68	7.7	<0.1	<0.05
D00015632	1.87	0.09	5.64	9.2	1.36	1.3	<0.1	<0.05
D00015633	0.79	0.03	10.9	10.4	1.96	11.1	0.1	<0.05
D00015634	0.13	0.07	11.7	19.6	1.14	2.6	<0.1	<0.05
D00015635	0.06	0.05	14.6	14.5	1.08	2.6	<0.1	<0.05
D00015636	0.19	0.05	10.9	20.8	1.53	2.3	<0.1	<0.05
*Dup D00015636	0.18	0.04	10.8	21.2	1.61	2.1	<0.1	<0.05
D00015637	0.37	0.05	10.1	20.8	1.52	4.0	<0.1	<0.05
D00015638	0.67	0.05	2.11	18.7	1.40	0.8	<0.1	<0.05

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga	@Ge	@Hf
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.02	0.01	0.05	0.1	0.05	0.1	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015639	0.26	0.05	5.18	16.8	1.05	11.5	0.1	<0.05
D00015640	0.49	0.13	4.20	21.6	2.59	1.1	<0.1	<0.05
D00015641	0.41	0.06	3.61	18.4	1.48	9.0	0.1	<0.05
D00015642	0.62	0.05	8.16	15.7	1.74	1.1	<0.1	<0.05
*Rep D00015601	0.12	0.05	11.7	9.4	2.28	2.7	<0.1	<0.05
*Rep D00015625	0.17	0.05	10.1	18.3	1.29	5.2	<0.1	<0.05
*Std OREAS503B	2.66	0.40	51.5	15.6	8.67	8.8	0.2	0.45
*Blk BLANK	<0.02	<0.01	<0.05	<0.1	<0.05	<0.1	<0.1	<0.05

Element	@Hg	@In	@La	@Lu	@Mo	@Nb	@Pb	@Rb
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.02	0.1	0.01	0.05	0.05	0.2	0.2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015572	0.16	0.21	4.1	0.08	3.55	0.05	4.3	6.2
D00015601	0.16	0.07	4.6	0.14	5.17	<0.05	3.3	9.0
D00015602	0.29	0.10	2.7	0.13	10.7	<0.05	3.7	10.4
D00015603	1.81	0.10	3.0	0.10	4.15	<0.05	3.5	7.0
D00015604	1.19	0.09	2.3	0.11	6.88	0.05	7.6	9.1
D00015605	0.44	0.05	2.3	0.08	3.30	<0.05	2.9	6.1
D00015606	0.13	0.08	5.1	0.16	5.39	<0.05	1.6	7.4
D00015607	0.43	0.13	3.8	0.09	5.27	<0.05	4.5	7.4
D00015608	0.19	0.13	4.2	0.10	7.16	<0.05	2.3	8.2
D00015609	0.25	0.09	3.9	0.16	7.49	<0.05	2.7	5.8
D00015610	0.80	0.04	1.8	0.11	5.99	<0.05	4.6	6.5
D00015611	0.46	0.05	3.2	0.13	4.80	<0.05	3.3	7.7
D00015612	0.48	0.04	2.4	0.10	10.9	<0.05	2.7	14.6
D00015613	0.61	0.23	3.1	0.12	8.96	<0.05	8.9	6.2
D00015614	0.51	0.09	2.4	0.08	7.67	<0.05	8.3	9.0
D00015615	0.52	0.86	1.1	0.02	23.2	<0.05	6.7	0.4
D00015616	0.18	0.68	4.9	0.14	2.80	0.39	10.6	0.4
D00015617	0.04	0.03	1.7	0.10	1.26	<0.05	8.1	6.4
D00015618	0.86	0.27	2.2	0.07	2.07	<0.05	481	7.9
D00015619	0.16	0.04	0.6	0.09	9.97	<0.05	2.8	8.4
D00015620	0.09	0.02	6.1	0.10	4.53	<0.05	2.9	17.7
D00015621	0.17	0.56	3.6	0.06	13.8	<0.05	6.5	6.3
D00015622	0.10	1.82	5.0	0.05	138	<0.05	7.5	8.1
D00015623	0.10	0.15	6.7	0.17	12.2	<0.05	6.0	11.8
D00015624	0.53	0.32	7.5	0.10	2.13	<0.05	23.8	10.8
D00015625	0.17	0.04	4.5	0.12	1.81	<0.05	4.7	11.9
D00015626	0.12	0.08	6.5	0.14	1.27	<0.05	20.4	17.8
D00015627	0.32	0.04	4.3	0.12	5.30	<0.05	5.0	9.0
D00015628	0.07	<0.02	7.7	0.15	2.70	<0.05	3.3	14.8
D00015629	0.06	0.03	7.2	0.15	1.87	<0.05	4.8	9.2
D00015630	0.25	0.05	7.2	0.14	2.16	<0.05	4.4	17.6
D00015631	0.30	0.34	2.6	0.06	2.63	<0.05	37.0	6.7
D00015632	0.28	0.31	2.4	0.08	2.12	<0.05	58.2	11.0
D00015633	0.01	0.10	5.5	0.16	1.04	<0.05	4.0	9.4
D00015634	0.07	0.08	6.0	0.19	1.28	<0.05	2.4	11.2
D00015635	0.03	0.05	7.5	0.17	1.44	<0.05	2.2	8.1
D00015636	0.02	0.06	5.3	0.23	1.58	<0.05	1.1	9.4
*Dup D00015636	0.01	0.06	5.3	0.23	1.35	<0.05	1.1	7.7
D00015637	0.02	0.04	4.4	0.16	1.19	<0.05	3.1	8.2
D00015638	1.74	0.25	0.7	0.04	1.46	<0.05	15.1	7.2

Element	@Hg	@In	@La	@Lu	@Mo	@Nb	@Pb	@Rb
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.02	0.1	0.01	0.05	0.05	0.2	0.2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015639	0.64	0.28	2.3	0.11	1.31	<0.05	4.4	4.5
D00015640	1.67	0.16	1.9	0.14	3.32	<0.05	11.2	10.2
D00015641	1.11	0.15	1.3	0.12	4.20	<0.05	4.6	6.8
D00015642	1.98	0.13	3.6	0.08	11.0	<0.05	8.6	8.3
*Rep D00015601	0.19	0.06	4.8	0.14	5.43	<0.05	3.4	9.2
*Rep D00015625	0.16	0.04	4.5	0.12	1.72	<0.05	4.7	11.9
*Std OREAS503B	0.03	0.39	25.4	0.23	316	1.18	13.3	106
*Blk BLANK	<0.01	<0.02	<0.1	<0.01	<0.05	<0.05	<0.2	<0.2

Element	@Sb	@Sc	@Se	@Sn	@Ta	@Tb	@Te	@Th
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.05	0.1	1	0.3	0.05	0.02	0.05	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015572	0.42	9.6	3	<0.3	<0.05	0.16	0.35	1.8
D00015601	0.57	9.2	2	<0.3	<0.05	0.32	0.39	0.9
D00015602	0.86	7.1	5	<0.3	<0.05	0.28	0.56	0.8
D00015603	0.62	8.3	7	<0.3	<0.05	0.28	1.86	1.2
D00015604	2.44	4.1	8	<0.3	<0.05	0.24	3.45	0.5
D00015605	0.73	10.2	2	<0.3	<0.05	0.18	1.13	1.3
D00015606	0.46	9.6	3	0.4	<0.05	0.34	0.05	0.9
D00015607	0.77	8.1	6	<0.3	<0.05	0.20	1.43	0.9
D00015608	0.60	13.3	4	0.4	<0.05	0.19	0.24	0.9
D00015609	0.37	15.7	5	0.6	<0.05	0.29	0.07	0.7
D00015610	0.63	3.5	5	<0.3	<0.05	0.25	0.98	0.4
D00015611	0.73	13.6	4	<0.3	<0.05	0.28	1.09	0.8
D00015612	0.29	4.7	8	<0.3	<0.05	0.28	0.59	1.1
D00015613	0.65	3.3	10	<0.3	<0.05	0.22	1.10	0.7
D00015614	0.50	3.9	8	<0.3	<0.05	0.19	2.14	0.8
D00015615	44.2	1.7	23	1.2	<0.05	0.04	3.04	<0.1
D00015616	8.31	5.4	17	1.5	<0.05	0.23	1.49	2.8
D00015617	0.93	4.5	8	<0.3	<0.05	0.18	0.28	0.4
D00015618	0.87	5.1	4	<0.3	<0.05	0.18	0.41	0.3
D00015619	0.71	11.3	2	<0.3	<0.05	0.10	0.26	0.5
D00015620	7.08	5.2	4	<0.3	<0.05	0.21	0.14	1.2
D00015621	1.14	9.4	24	0.3	<0.05	0.13	1.71	1.0
D00015622	2.28	11.2	31	0.5	<0.05	0.16	2.25	0.9
D00015623	0.65	7.3	6	<0.3	<0.05	0.25	0.58	1.4
D00015624	1.44	3.9	15	<0.3	<0.05	0.26	0.85	1.4
D00015625	0.32	3.4	5	<0.3	<0.05	0.26	1.31	1.4
D00015626	0.89	3.4	2	<0.3	<0.05	0.32	1.12	0.9
D00015627	0.40	3.9	6	<0.3	<0.05	0.26	1.60	0.9
D00015628	0.30	7.3	5	<0.3	<0.05	0.32	0.07	1.3
D00015629	0.27	6.0	3	<0.3	<0.05	0.34	0.09	1.5
D00015630	0.33	5.5	3	<0.3	<0.05	0.31	0.94	1.4
D00015631	0.53	3.7	19	<0.3	<0.05	0.11	0.67	0.7
D00015632	3.50	2.8	4	<0.3	<0.05	0.20	1.38	0.6
D00015633	0.57	21.8	1	0.3	<0.05	0.24	0.14	1.7
D00015634	3.49	12.2	6	<0.3	<0.05	0.28	0.08	2.0
D00015635	3.60	21.0	1	<0.3	<0.05	0.28	<0.05	2.2
D00015636	0.86	14.8	2	<0.3	<0.05	0.30	0.15	1.8
*Dup D00015636	0.91	14.9	2	<0.3	<0.05	0.30	0.16	1.9
D00015637	0.60	12.1	2	<0.3	<0.05	0.26	0.14	2.1
D00015638	1.88	2.1	15	<0.3	<0.05	0.12	0.97	0.5

Element	@Sb	@Sc	@Se	@Sn	@Ta	@Tb	@Te	@Th
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.05	0.1	1	0.3	0.05	0.02	0.05	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015639	0.31	10.1	7	0.3	<0.05	0.17	0.61	1.0
D00015640	0.86	7.9	5	<0.3	<0.05	0.21	1.55	0.6
D00015641	0.29	10.9	3	<0.3	<0.05	0.17	1.55	1.0
D00015642	0.63	2.4	11	<0.3	<0.05	0.19	1.94	0.8
*Rep D00015601	0.52	9.2	2	<0.3	<0.05	0.33	0.41	1.0
*Rep D00015625	0.35	3.4	4	<0.3	<0.05	0.26	1.34	1.4
*Std OREAS503B	0.44	7.6	5	7.0	<0.05	0.57	0.15	15.3
*Blk BLANK	<0.05	<0.1	<1	<0.3	<0.05	<0.02	<0.05	<0.1

Element	@Tl	@U	@W	@Y	@Yb	Cu	@S	Fe
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GO_ICP13B	GE_CSA06V	GO_XRF77B
Det.Lim.	0.02	0.05	0.1	0.05	0.1	0.01	0.005	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	%	%
D00015572	0.07	0.24	0.1	3.95	0.5	N.A.	N.A.	N.A.
D00015601	0.09	0.14	0.2	8.01	0.9	N.A.	N.A.	N.A.
D00015602	0.11	0.12	0.1	8.49	0.8	N.A.	N.A.	N.A.
D00015603	0.07	0.19	0.1	7.14	0.7	N.A.	N.A.	N.A.
D00015604	0.09	0.14	0.1	7.26	0.7	N.A.	10.2	N.A.
D00015605	0.06	0.35	0.1	4.76	0.5	N.A.	N.A.	N.A.
D00015606	0.07	0.16	<0.1	10.6	1.1	N.A.	N.A.	N.A.
D00015607	0.08	0.16	0.1	5.57	0.6	N.A.	N.A.	N.A.
D00015608	0.08	0.25	0.2	4.59	0.6	N.A.	N.A.	N.A.
D00015609	0.06	0.14	<0.1	9.03	1.0	N.A.	N.A.	N.A.
D00015610	0.06	0.07	<0.1	9.08	0.7	N.A.	N.A.	N.A.
D00015611	0.08	0.14	0.1	8.50	0.8	N.A.	N.A.	N.A.
D00015612	0.14	0.23	<0.1	6.98	0.7	N.A.	N.A.	N.A.
D00015613	0.09	0.23	<0.1	6.35	0.7	N.A.	5.07	N.A.
D00015614	0.11	0.30	0.1	5.33	0.5	N.A.	7.96	N.A.
D00015615	<0.02	<0.05	<0.1	1.06	0.1	5.12	7.45	N.A.
D00015616	0.02	0.27	1.7	6.55	0.8	3.77	N.A.	47.7
D00015617	0.07	0.14	<0.1	4.81	0.6	N.A.	6.45	N.A.
D00015618	0.14	0.17	0.1	4.14	0.4	N.A.	9.24	N.A.
D00015619	0.07	0.13	<0.1	3.22	0.5	N.A.	N.A.	N.A.
D00015620	0.17	0.42	<0.1	6.86	0.7	N.A.	N.A.	N.A.
D00015621	0.07	0.23	0.1	3.36	0.4	N.A.	7.29	N.A.
D00015622	0.10	0.23	0.2	3.24	0.4	3.35	8.55	N.A.
D00015623	0.11	0.34	<0.1	7.16	0.9	N.A.	N.A.	N.A.
D00015624	0.13	0.11	<0.1	6.39	0.6	1.54	N.A.	N.A.
D00015625	0.11	0.08	<0.1	7.82	0.7	N.A.	N.A.	N.A.
D00015626	0.15	0.10	<0.1	9.10	0.9	N.A.	N.A.	N.A.
D00015627	0.10	0.17	<0.1	7.53	0.7	N.A.	6.66	N.A.
D00015628	0.15	0.12	<0.1	7.92	0.9	N.A.	N.A.	N.A.
D00015629	0.09	0.12	<0.1	9.49	0.9	N.A.	N.A.	N.A.
D00015630	0.17	0.10	<0.1	8.64	0.9	N.A.	N.A.	N.A.
D00015631	0.07	<0.05	<0.1	3.07	0.4	1.79	N.A.	N.A.
D00015632	0.14	0.09	<0.1	6.14	0.6	N.A.	9.12	N.A.
D00015633	0.06	0.50	<0.1	7.61	1.0	N.A.	N.A.	N.A.
D00015634	0.07	0.39	<0.1	8.79	1.1	N.A.	N.A.	N.A.
D00015635	0.05	0.41	0.1	8.28	1.0	N.A.	N.A.	N.A.
D00015636	0.06	0.35	<0.1	9.54	1.3	N.A.	N.A.	N.A.
*Dup D00015636	0.05	0.37	<0.1	9.46	1.3	N.A.	N.A.	N.A.
D00015637	0.06	0.34	<0.1	7.43	0.9	N.A.	N.A.	N.A.
D00015638	0.26	0.13	<0.1	2.98	0.3	1.25	7.50	N.A.

Final : VC172274 Order: Kinskuch17-01 / 119 samples

Report File No.: 0000026624

Element	@Tl	@U	@W	@Y	@Yb	Cu	@S	Fe
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GO_ICP13B	GE_CSA06V	GO_XRF77B
Det.Lim.	0.02	0.05	0.1	0.05	0.1	0.01	0.005	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	%	%
D00015639	0.06	0.15	<0.1	5.64	0.6	N.A.	N.A.	N.A.
D00015640	0.13	0.26	<0.1	6.26	0.8	N.A.	N.A.	N.A.
D00015641	0.08	0.37	<0.1	5.46	0.7	N.A.	N.A.	N.A.
D00015642	0.10	0.16	<0.1	4.53	0.5	N.A.	5.77	N.A.
*Rep D00015601	0.09	0.15	0.1	7.99	0.9			
*Rep D00015625	0.12	0.08	<0.1	7.90	0.7			
*Std OREAS503B	0.61	4.12	2.2	15.5	1.4			
*Blk BLANK	<0.02	<0.05	<0.1	<0.05	<0.1			
*Rep D00015616								48.5
*Std SCH1								59.2
*Blk BLANK								<0.01
*Std SU_1B						1.19		
*Std MP1B						2.97		
*Std CD_1						N.A.		
*Std CCU1D						24.0		
*Blk BLANK						<0.01		
*Rep D00015627							6.65	
*Std OREAS134A							19.6	
*Blk BLANK							<0.005	

Certificate of Analysis
Work Order : VC172379
[Report File No.: 0000026623]

Date: December 14, 2017

To: **George Cavey**
OK2 MINERALS LTD
SUITE 1780-400 BURRARD ST
VANCOUVER BC V6C 3A6

P.O. No.: Kinskuch17-02 / 70 samples
Project No.: KINSKUCH
Samples: 70
Received: Aug 3, 2017
Pages: Page 1 to 24
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
70	G_LOG02	Pre-preparation processing, sorting, logging, boxing
70	G_WGH79	Weighing of samples and reporting of weights
70	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
70	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
70	GE_IC14A	Aqua Regia digestion/ICP-AES finish
70	GE_IC14M	Aqua Regia digestion/ICP-MS finish
8	GE_CSA06V	Total Sulfur and Total Carbon, Leco Method
9	GO_ICP13B	Ore Grade, Aqua Regia Diges/ICP-AES

Storage: Pulp & Reject

REJECT STORAGE	:	PAID STORE AFTER 30 DAYS
PULP STORAGE	:	PAID STORE AFTER 90 DAYS

Comments:

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

Certified By :

John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

Final : VC172379 Order: Kinskuch17-02 / 70 samples

Report File No.: 0000026623

Element	WtKg	@Au	@Ag	@Al	@Ba	@Ca	@Cr	@Cu
Method	G_WGH79	GE_FAA313	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	5	0.01	0.01	5	0.01	1	0.5
Units	kg	ppb	ppm	%	ppm	%	ppm	ppm
D00015537	1.050	548	2.57	2.46	115	3.08	5	6440
D00015538	1.240	311	2.24	2.25	212	3.85	4	5940
D00015539	0.815	9	4.81	0.26	406	0.11	5	161
D00015540	1.470	<5	<0.01	1.24	532	0.22	10	186
D00015541	0.485	50	15.7	0.82	41	0.17	2	154
D00015542	1.255	25	0.30	1.11	100	4.76	4	254
D00015543	0.990	80	0.60	2.26	410	3.00	4	1950
D00015544	1.225	110	0.95	2.21	121	3.54	4	1880
D00015545	1.150	65	2.91	1.43	61	4.29	5	8130
D00015546	1.185	40	0.72	1.81	174	4.96	4	1890
D00015547	1.585	98	1.86	0.93	139	4.46	3	4080
D00015548	1.370	81	1.39	1.65	115	3.77	5	3590
D00015549	2.240	134	1.58	1.36	110	3.36	4	4260
D00015550	0.850	25	0.35	1.44	133	0.98	3	710
D00015573	0.925	41	0.52	1.26	124	2.58	7	836
D00015574	1.220	61	5.87	0.69	78	2.74	<1	353
D00015575	1.215	19	0.25	0.65	175	8.17	9	42.4
D00015576	1.205	<5	0.41	1.66	212	6.14	<1	47.2
D00015577	1.160	440	2.66	0.76	101	2.54	3	9960
D00015578	0.840	79	0.50	2.96	173	3.95	8	1380
D00015579	1.045	49	0.58	2.95	871	4.18	4	2220
D00015580	1.430	211	2.00	1.34	88	3.23	7	6810
D00015581	1.680	75	0.75	1.38	328	4.04	8	1180
D00015582	1.330	89	2.89	0.38	1980	7.27	2	3880
D00015583	1.140	19	0.25	1.88	2640	2.82	2	287
D00015584	1.090	7	0.37	1.23	319	7.30	<1	170
D00015585	1.465	<5	0.09	1.77	238	3.38	1	70.7
D00015586	0.825	8	0.18	2.22	117	0.09	8	73.6
D00015587	1.235	<5	3.48	3.24	560	0.26	5	264
D00015588	1.535	996	4.24	0.59	30	4.02	<1	1080
D00015643	0.720	457	1.84	2.38	100	2.20	15	570
D00015644	1.030	341	4.54	0.28	50	4.76	2	1890
D00015645	1.245	137	1.77	0.55	147	4.94	2	2970
D00015646	1.555	430	3.08	0.81	97	0.35	2	8040
D00015647	0.295	57	0.89	1.68	317	1.21	6	2840
D00015648	1.750	361	1.09	2.42	79	2.91	4	5840
*Dup D00015648	N.A.	334	1.06	2.50	81	2.84	5	5580
D00015649	0.660	344	1.06	1.50	203	3.77	4	7580
D00015650	1.200	564	2.36	0.71	184	3.59	3	>10000
D00015651	1.345	176	1.05	2.17	262	3.64	5	3630

Final : VC172379 Order: Kinskuch17-02 / 70 samples

Report File No.: 0000026623

Element	WtKg	@Au	@Ag	@Al	@Ba	@Ca	@Cr	@Cu
Method	G_WGH79	GE_FAA313	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	5	0.01	0.01	5	0.01	1	0.5
Units	kg	ppb	ppm	%	ppm	%	ppm	ppm
D00015652	1.360	631	1.84	1.59	222	3.49	5	8670
D00015653	1.345	652	2.32	1.73	114	2.53	6	>10000
D00015654	1.145	69	4.19	1.34	87	12.6	<1	244
D00015655	0.320	20	57.9	1.35	87	8.69	<1	456
D00015656	0.875	109	5.91	1.28	146	5.55	1	773
D00015657	1.600	10	0.97	2.03	605	3.68	5	1800
D00015658	0.620	420	12.3	1.92	102	0.41	8	>10000
D00015659	1.045	83	0.61	1.45	192	2.81	8	2110
D00015660	0.360	100	1.08	1.20	153	5.18	10	2610
D00015661	1.375	278	2.86	1.64	261	4.30	4	6970
D00015662	1.410	50	2.63	1.36	86	4.68	4	5570
D00015663	1.580	78	1.03	0.84	197	5.38	5	2780
D00015664	0.925	410	15.6	2.95	49	4.63	7	5790
D00015665	1.280	88	30.1	0.17	35	3.82	<1	>10000
D00015666	1.225	218	1.91	3.23	69	3.96	3	5390
D00015667	0.695	98	1.09	1.20	291	0.87	4	2510
D00015670	0.950	39	1.17	1.35	94	2.91	8	116
D00015671	1.400	15	0.23	0.33	287	6.85	3	750
D00015672	1.355	92	0.42	0.77	824	7.51	5	1550
D00015673	1.345	92	0.31	1.41	345	4.45	7	1030
D00015801	1.070	6	0.22	1.40	171	0.80	5	53.2
D00015802	1.105	9	0.18	1.73	401	2.87	11	73.9
D00015803	0.340	11	0.32	1.46	230	0.84	5	76.4
D00015804	0.405	18	0.17	1.72	444	3.36	12	87.4
D00015805	0.475	647	1.86	1.45	75	2.55	11	6480
D00015901	1.495	8	0.29	1.45	210	0.86	6	63.2
D00015902	1.050	46	1.27	0.57	103	3.91	3	1030
D00015903	0.990	72	0.71	1.19	385	3.80	8	1940
D00015904	1.185	156	0.76	1.75	144	5.25	29	3130
D00015905	0.615	28	0.13	1.39	121	3.31	4	61.4
D00015906	1.120	19	0.40	2.12	64	2.32	26	621
*Rep D00015647		58						
*Rep D00015658		416						
*Std OREAS222		1230						
*Std AMIS0474		188						
*Std OXN117		7460						
*Blk BLANK		<5						
*Rep D00015575			0.25	0.64	170	8.30	10	42.9
*Rep D00015652			1.80	1.61	236	3.48	4	8650
*Rep D00015801			0.22	1.37	165	0.79	4	52.5

Final : VC172379 Order: Kinskuch17-02 / 70 samples

Report File No.: 0000026623

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.01	5	0.01	1	0.5
Units	ppm	%	ppm	%	ppm	ppm
*Std OREAS503B	1.44	1.97	319	1.17	86	5370
*Std OREAS503B	1.48	1.97	307	1.21	87	5550
*Blk BLANK	<0.01	<0.01	<5	<0.01	<1	<0.5
*Blk BLANK	<0.01	<0.01	<5	<0.01	<1	<0.5

Element	@Fe	@K	@Li	@Mg	@Mn	@Na	@Ni	@P
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.01	1	0.01	2	0.01	0.5	0.01
Units	%	%	ppm	%	ppm	%	ppm	%
D00015537	8.36	0.31	28	1.54	1320	0.02	5.4	0.13
D00015538	6.55	0.35	23	1.24	1030	0.02	4.4	0.14
D00015539	2.20	0.15	<1	0.02	72	0.05	1.8	0.09
D00015540	4.74	0.16	18	0.31	294	0.09	3.7	0.13
D00015541	9.41	0.15	14	0.44	362	0.05	3.6	0.08
D00015542	4.28	0.39	11	0.71	1120	0.02	3.8	0.13
D00015543	4.99	0.31	27	1.62	1280	0.02	3.6	0.15
D00015544	6.15	0.46	24	1.35	1170	0.02	3.5	0.15
D00015545	4.52	0.32	15	1.07	1430	0.02	4.4	0.12
D00015546	3.97	0.32	20	1.28	1310	0.01	3.0	0.12
D00015547	3.86	0.41	7	0.45	1010	0.01	3.9	0.11
D00015548	4.75	0.29	20	1.46	1310	0.03	4.1	0.13
D00015549	4.98	0.37	14	0.92	849	0.02	3.9	0.13
D00015550	3.86	0.34	15	1.13	418	0.03	2.4	0.19
D00015573	4.25	0.28	15	1.08	1180	0.04	4.0	0.09
D00015574	5.52	0.24	3	0.18	2140	0.03	12.0	0.16
D00015575	2.11	0.09	4	0.29	2780	0.02	2.9	0.02
D00015576	5.31	0.16	10	0.62	1610	0.03	4.1	0.18
D00015577	4.61	0.34	6	0.31	688	0.02	6.6	0.13
D00015578	9.26	0.23	36	1.69	1360	0.01	4.7	0.08
D00015579	8.76	0.25	32	2.16	1220	0.03	4.2	0.11
D00015580	6.14	0.22	16	1.28	910	0.02	6.0	0.11
D00015581	4.50	0.30	15	0.67	1170	0.01	3.3	0.07
D00015582	2.15	0.09	6	0.09	2130	0.04	0.6	0.11
D00015583	4.02	0.22	20	0.60	794	0.07	2.0	0.17
D00015584	3.57	0.11	14	0.50	1500	0.04	1.8	0.15
D00015585	4.63	0.22	18	0.72	1030	0.06	2.2	0.18
D00015586	9.02	0.10	31	0.70	459	0.03	4.3	0.12
D00015587	7.45	0.17	36	1.00	1220	0.03	5.5	0.13
D00015588	>15.0	0.17	4	0.91	1480	0.01	4.6	0.06
D00015643	6.98	0.38	28	1.78	1570	0.01	12.3	0.13
D00015644	7.89	0.20	<1	0.68	2460	0.01	3.6	0.08
D00015645	4.11	0.36	1	1.10	2230	0.02	4.1	0.12
D00015646	4.49	0.31	7	0.36	115	0.01	7.0	0.14
D00015647	3.67	0.35	22	1.23	596	0.02	4.6	0.10
D00015648	5.92	0.32	33	1.67	992	0.02	5.9	0.15
*Dup D00015648	5.96	0.38	33	1.65	982	0.02	5.9	0.15
D00015649	4.76	0.28	18	1.08	1020	0.02	4.9	0.11
D00015650	3.50	0.27	7	0.69	964	0.02	5.4	0.12
D00015651	5.83	0.41	26	1.45	1080	0.02	4.7	0.13

Element	@Fe	@K	@Li	@Mg	@Mn	@Na	@Ni	@P
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.01	1	0.01	2	0.01	0.5	0.01
Units	%	%	ppm	%	ppm	%	ppm	%
D00015652	7.96	0.25	19	1.10	841	0.02	6.5	0.08
D00015653	6.95	0.34	19	1.42	989	0.02	7.6	0.14
D00015654	6.46	0.16	7	0.51	9530	0.01	5.2	0.09
D00015655	7.43	0.24	6	0.43	>10000	0.02	43.7	0.08
D00015656	4.16	0.15	7	0.51	6760	0.02	10.7	0.22
D00015657	4.70	0.16	14	1.31	1320	0.03	4.3	0.14
D00015658	7.48	0.18	21	0.93	552	0.02	7.7	0.05
D00015659	3.74	0.29	14	1.05	715	0.01	2.6	0.08
D00015660	4.25	0.31	9	0.65	1490	0.02	4.7	0.08
D00015661	4.79	0.32	17	1.17	1290	0.03	4.0	0.09
D00015662	6.23	0.36	15	0.83	1380	0.01	4.4	0.12
D00015663	3.13	0.35	7	0.42	1550	0.01	2.4	0.10
D00015664	10.1	0.15	37	2.08	2950	0.01	4.1	0.08
D00015665	10.6	0.15	<1	0.04	460	0.01	3.2	0.05
D00015666	8.60	0.36	34	1.90	1660	0.02	4.7	0.12
D00015667	3.02	0.30	13	0.82	334	0.02	4.3	0.13
D00015670	6.07	0.23	15	1.31	1820	0.02	6.3	0.16
D00015671	3.64	0.18	<1	1.73	1200	0.03	3.8	0.12
D00015672	1.77	0.26	5	0.33	1130	0.02	3.4	0.12
D00015673	2.74	0.16	14	1.16	740	0.04	4.0	0.12
D00015801	4.03	0.22	16	1.09	1340	0.06	3.1	0.15
D00015802	4.12	0.16	17	1.29	1210	0.03	6.9	0.14
D00015803	4.43	0.25	17	1.08	1370	0.06	3.6	0.15
D00015804	4.46	0.15	17	1.23	1210	0.03	8.0	0.16
D00015805	3.57	0.16	18	1.33	669	0.06	6.6	0.14
D00015901	4.58	0.25	17	1.08	1340	0.06	3.6	0.16
D00015902	5.18	0.29	3	0.71	1400	0.02	4.1	0.10
D00015903	3.14	0.24	12	0.79	857	0.02	4.7	0.13
D00015904	4.71	0.22	19	1.72	857	0.04	15.7	0.12
D00015905	3.56	0.25	11	0.87	588	0.03	3.3	0.11
D00015906	6.96	0.17	22	2.03	992	0.04	14.2	0.11
*Rep D00015575	2.08	0.09	4	0.29	2730	0.02	2.8	0.02
*Rep D00015652	8.01	0.26	19	1.12	856	0.02	6.3	0.08
*Rep D00015801	4.29	0.21	16	1.08	1310	0.06	3.2	0.15

Element	@Fe	@K	@Li	@Mg	@Mn	@Na	@Ni	@P
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.01	1	0.01	2	0.01	0.5	0.01
Units	%	%	ppm	%	ppm	%	ppm	%
*Std OREAS503B	5.11	0.96	28	1.26	397	0.17	36.7	0.11
*Std OREAS503B	5.13	0.97	30	1.26	399	0.16	36.4	0.10
*Blk BLANK	<0.01	<0.01	<1	<0.01	<2	<0.01	<0.5	<0.01
*Blk BLANK	<0.01	<0.01	<1	<0.01	<2	<0.01	<0.5	<0.01

Element	@S	@Sr	@Ti	@V	@Zn	@Zr	@As	@Be
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.5	0.01	1	1	0.5	1	0.1
Units	%	ppm	%	ppm	ppm	ppm	ppm	ppm
D00015537	3.34	83.8	<0.01	127	90	<0.5	87	0.2
D00015538	1.85	133	<0.01	77	68	<0.5	8	0.2
D00015539	1.02	52.7	<0.01	19	23	3.7	196	<0.1
D00015540	0.75	29.7	<0.01	64	123	4.0	<1	<0.1
D00015541	>5.00	83.2	<0.01	32	93	2.9	2420	0.1
D00015542	3.41	91.7	<0.01	37	47	0.7	9	0.4
D00015543	1.06	80.1	<0.01	76	102	<0.5	9	0.2
D00015544	3.08	83.7	<0.01	76	69	<0.5	40	0.4
D00015545	2.83	85.3	<0.01	51	61	<0.5	14	0.3
D00015546	1.00	107	<0.01	59	104	<0.5	5	0.2
D00015547	2.86	106	<0.01	22	43	0.7	6	0.4
D00015548	2.82	78.0	<0.01	77	68	<0.5	7	0.3
D00015549	3.40	69.7	<0.01	47	67	<0.5	14	0.3
D00015550	1.77	31.0	<0.01	39	39	<0.5	21	0.2
D00015573	3.20	95.0	<0.01	105	103	<0.5	8	0.1
D00015574	>5.00	81.8	<0.01	14	>10000	2.1	48	0.2
D00015575	0.01	264	<0.01	10	93	<0.5	6	0.1
D00015576	2.26	190	<0.01	36	117	0.8	391	0.3
D00015577	3.72	49.7	<0.01	36	29	<0.5	19	0.3
D00015578	2.16	89.5	<0.01	285	95	<0.5	9	0.2
D00015579	0.49	111	<0.01	254	92	<0.5	3	0.2
D00015580	4.90	78.6	<0.01	130	66	<0.5	12	0.3
D00015581	1.36	91.6	<0.01	106	103	<0.5	29	0.2
D00015582	0.07	209	<0.01	17	243	1.1	840	0.2
D00015583	0.08	209	<0.01	59	79	2.8	7	0.5
D00015584	1.18	278	<0.01	28	80	3.9	25	0.4
D00015585	1.84	99.0	<0.01	35	100	2.3	57	0.5
D00015586	2.08	15.3	<0.01	63	249	1.1	30	0.1
D00015587	0.44	42.2	<0.01	57	757	0.9	131	0.3
D00015588	>5.00	103	<0.01	18	300	<0.5	241	<0.1
D00015643	2.71	55.2	<0.01	110	591	<0.5	23	0.4
D00015644	>5.00	79.8	<0.01	17	683	<0.5	173	0.2
D00015645	2.46	81.7	<0.01	32	57	0.7	41	0.3
D00015646	3.42	12.3	<0.01	19	55	<0.5	60	0.3
D00015647	1.31	67.6	<0.01	78	84	<0.5	9	0.3
D00015648	1.72	58.6	<0.01	86	83	<0.5	14	0.4
*Dup D00015648	1.68	58.0	<0.01	88	83	<0.5	14	0.3
D00015649	1.74	77.8	<0.01	69	56	<0.5	6	0.3
D00015650	1.98	69.5	<0.01	37	33	<0.5	5	0.2
D00015651	1.58	86.0	<0.01	85	75	<0.5	11	0.4

Element	@S	@Sr	@Ti	@V	@Zn	@Zr	@As	@Be
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.5	0.01	1	1	0.5	1	0.1
Units	%	ppm	%	ppm	ppm	ppm	ppm	ppm
D00015652	1.68	81.4	<0.01	153	60	<0.5	4	0.2
D00015653	3.43	64.4	<0.01	109	82	<0.5	9	0.3
D00015654	>5.00	321	<0.01	20	>10000	2.1	322	0.2
D00015655	>5.00	236	<0.01	24	>10000	3.1	968	0.2
D00015656	3.39	995	<0.01	37	>10000	1.3	196	0.2
D00015657	0.04	102	0.02	74	131	3.2	5	0.4
D00015658	3.41	26.5	<0.01	69	67	<0.5	100	0.3
D00015659	1.85	67.8	<0.01	67	29	<0.5	7	0.2
D00015660	2.44	102	<0.01	53	22	<0.5	6	0.2
D00015661	1.50	204	<0.01	83	83	0.7	5	0.2
D00015662	4.54	110	<0.01	39	125	<0.5	24	0.3
D00015663	2.08	114	<0.01	23	72	0.6	23	0.3
D00015664	>5.00	75.4	<0.01	87	959	<0.5	133	0.3
D00015665	>5.00	47.4	<0.01	5	44	<0.5	10	<0.1
D00015666	1.41	70.9	<0.01	86	130	<0.5	4	0.4
D00015667	1.28	281	<0.01	42	67	0.6	22	0.4
D00015670	4.38	61.0	<0.01	52	158	0.7	251	0.6
D00015671	1.14	623	<0.01	71	18	<0.5	6	0.2
D00015672	0.54	169	<0.01	18	11	<0.5	4	0.4
D00015673	0.64	94.3	<0.01	73	22	<0.5	4	0.3
D00015801	0.02	65.8	0.11	84	124	6.6	5	0.5
D00015802	0.17	89.8	0.04	90	89	2.1	6	0.3
D00015803	0.02	66.5	0.11	96	134	6.9	5	0.4
D00015804	0.17	97.2	0.03	84	79	2.1	11	0.3
D00015805	1.14	56.2	<0.01	91	52	0.9	5	0.2
D00015901	0.02	70.2	0.11	103	131	7.0	5	0.5
D00015902	3.62	71.1	<0.01	21	29	<0.5	13	0.3
D00015903	1.20	79.7	<0.01	53	26	<0.5	5	0.3
D00015904	2.73	101	<0.01	78	42	<0.5	4	0.3
D00015905	1.21	60.0	<0.01	49	30	<0.5	3	0.3
D00015906	4.76	32.7	<0.01	136	56	<0.5	12	0.2
*Rep D00015575	0.01	258	<0.01	9	91	<0.5	6	0.2
*Rep D00015652	1.68	81.3	<0.01	152	60	<0.5	4	0.2
*Rep D00015801	0.02	65.1	0.10	81	123	6.2	5	0.5

Final : VC172379 Order: Kinskuch17-02 / 70 samples

Report File No.: 0000026623

Element	@S	@Sr	@Ti	@V	@Zn	@Zr	@As	@Be
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.5	0.01	1	1	0.5	1	0.1
Units	%	ppm	%	ppm	ppm	ppm	ppm	ppm
*Std OREAS503B	0.68	73.9	0.31	125	77	11.3	17	0.4
*Std OREAS503B	0.68	77.7	0.34	122	80	11.7	22	0.5
*Blk BLANK	<0.01	<0.5	<0.01	<1	<1	<0.5	<1	<0.1
*Blk BLANK	<0.01	<0.5	<0.01	<1	<1	<0.5	<1	<0.1

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga	@Ge	@Hf
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.02	0.01	0.05	0.1	0.05	0.1	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015537	0.51	0.10	7.72	10.5	0.77	7.2	0.1	<0.05
D00015538	0.06	0.08	7.81	12.6	1.74	5.5	<0.1	<0.05
D00015539	0.09	0.54	23.9	7.1	0.45	1.2	<0.1	0.10
D00015540	<0.02	<0.01	<0.05	<0.1	<0.05	<0.1	<0.1	<0.05
D00015541	<0.02	0.78	6.39	18.5	1.50	3.6	0.1	0.10
D00015542	0.15	0.11	11.1	12.2	2.06	3.1	<0.1	<0.05
D00015543	0.04	0.05	12.3	4.9	1.52	6.5	<0.1	<0.05
D00015544	0.22	0.04	10.4	8.2	1.72	5.7	<0.1	<0.05
D00015545	0.29	0.08	6.57	17.6	1.59	3.8	<0.1	<0.05
D00015546	0.25	0.05	11.0	7.5	1.57	5.0	<0.1	<0.05
D00015547	0.15	0.13	7.04	23.4	2.03	1.9	<0.1	<0.05
D00015548	0.16	0.04	14.6	13.1	1.41	5.2	<0.1	<0.05
D00015549	0.37	0.07	10.3	21.6	1.92	3.5	<0.1	<0.05
D00015550	0.07	0.03	12.2	23.6	0.84	4.0	<0.1	<0.05
D00015573	0.26	0.08	10.8	8.0	0.57	4.5	<0.1	<0.05
D00015574	2.61	300	22.9	58.5	2.13	1.7	<0.1	0.07
D00015575	0.12	1.25	20.0	4.6	0.83	1.7	<0.1	<0.05
D00015576	<0.02	1.07	14.3	34.6	0.91	4.0	<0.1	<0.05
D00015577	0.17	0.09	6.63	15.5	1.77	1.8	<0.1	<0.05
D00015578	0.07	0.03	6.88	8.5	0.66	11.0	0.2	<0.05
D00015579	<0.02	0.02	18.5	9.3	0.89	13.1	0.2	<0.05
D00015580	0.30	0.08	6.90	18.4	1.14	5.3	<0.1	<0.05
D00015581	0.21	0.05	8.16	7.2	1.63	3.7	<0.1	<0.05
D00015582	0.49	2.34	5.87	5.9	4.47	0.8	<0.1	<0.05
D00015583	0.08	0.09	25.8	9.7	6.50	5.5	<0.1	0.07
D00015584	0.06	0.67	16.7	18.0	5.59	3.7	<0.1	<0.05
D00015585	0.07	1.17	22.7	31.0	6.14	5.4	<0.1	<0.05
D00015586	3.25	0.05	2.91	7.2	2.33	7.1	0.1	<0.05
D00015587	3.88	0.77	10.7	14.2	2.54	7.7	0.1	<0.05
D00015588	3.95	2.44	3.27	25.8	0.85	1.4	0.2	<0.05
D00015643	0.91	3.34	9.98	31.4	1.70	7.4	<0.1	<0.05
D00015644	1.51	3.86	6.38	12.5	0.99	0.7	<0.1	<0.05
D00015645	0.18	0.17	4.59	11.3	2.19	1.1	<0.1	<0.05
D00015646	0.49	0.17	3.58	21.8	2.60	1.7	<0.1	<0.05
D00015647	0.11	0.06	7.01	12.7	1.30	4.2	<0.1	<0.05
D00015648	0.08	0.02	8.02	8.7	1.92	7.4	<0.1	<0.05
*Dup D00015648	0.08	0.02	8.02	8.7	1.89	7.9	<0.1	<0.05
D00015649	0.04	0.03	10.9	8.8	1.34	4.6	<0.1	<0.05
D00015650	0.08	0.08	8.26	19.3	1.15	2.0	<0.1	<0.05
D00015651	0.08	0.02	12.2	10.9	1.52	5.8	<0.1	<0.05

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga	@Ge	@Hf
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.02	0.01	0.05	0.1	0.05	0.1	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015652	0.07	0.04	5.45	9.4	0.79	5.4	0.1	<0.05
D00015653	0.15	0.05	8.10	24.4	1.03	5.5	<0.1	<0.05
D00015654	<0.02	489	12.3	24.8	0.94	2.9	<0.1	0.05
D00015655	0.05	666	11.3	290	1.10	2.8	<0.1	0.06
D00015656	0.46	549	13.0	64.5	1.60	2.9	<0.1	<0.05
D00015657	0.42	0.83	18.3	17.0	0.95	4.8	<0.1	0.10
D00015658	0.22	0.44	5.64	17.4	1.07	5.6	<0.1	<0.05
D00015659	0.35	0.11	7.30	3.5	1.34	3.9	<0.1	<0.05
D00015660	0.23	0.13	9.61	10.9	1.23	3.1	<0.1	<0.05
D00015661	0.06	0.11	8.50	9.1	1.21	4.8	<0.1	<0.05
D00015662	0.44	0.14	7.96	30.7	1.58	2.7	<0.1	<0.05
D00015663	0.19	0.23	11.7	6.8	1.68	1.6	<0.1	<0.05
D00015664	1.15	5.34	10.1	5.3	1.33	8.2	0.1	<0.05
D00015665	0.13	0.54	9.56	5.6	0.42	0.3	<0.1	<0.05
D00015666	0.05	0.08	9.57	7.8	1.19	7.9	0.1	<0.05
D00015667	0.10	0.08	11.8	7.3	1.67	2.9	<0.1	<0.05
D00015670	0.12	0.23	8.86	19.2	1.79	2.8	<0.1	<0.05
D00015671	0.15	0.04	6.34	11.0	1.81	0.6	<0.1	<0.05
D00015672	0.11	0.05	10.9	5.9	2.04	1.6	<0.1	<0.05
D00015673	0.14	0.03	7.82	13.6	1.96	4.3	<0.1	<0.05
D00015801	0.05	0.16	29.1	11.4	0.86	5.2	<0.1	0.30
D00015802	0.04	0.19	21.6	14.3	0.85	5.3	<0.1	0.10
D00015803	0.06	0.19	29.2	13.1	1.06	5.4	0.1	0.28
D00015804	0.06	0.22	21.8	15.0	0.81	5.0	<0.1	0.09
D00015805	0.20	0.09	27.0	14.1	1.13	5.8	<0.1	<0.05
D00015901	0.07	0.17	30.2	12.9	1.10	5.6	0.1	0.30
D00015902	0.79	0.08	4.19	13.6	2.10	1.3	<0.1	<0.05
D00015903	0.24	0.04	7.60	11.1	1.81	3.1	<0.1	<0.05
D00015904	0.24	0.13	12.4	22.8	1.32	5.8	<0.1	<0.05
D00015905	0.06	0.01	7.42	9.9	1.73	4.1	<0.1	<0.05
D00015906	0.19	0.08	7.75	20.7	1.85	6.2	<0.1	<0.05
*Rep D00015575	0.12	1.21	19.7	4.4	0.81	1.8	<0.1	<0.05
*Rep D00015652	0.07	0.04	5.38	9.0	0.79	5.7	0.1	<0.05
*Rep D00015801	0.05	0.15	29.7	11.7	0.89	5.3	0.1	0.29

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga	@Ge	@Hf
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.02	0.01	0.05	0.1	0.05	0.1	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Std OREAS503B	2.70	0.47	54.7	15.7	8.85	9.4	0.3	0.48
*Std OREAS503B	2.75	0.48	55.2	16.9	8.68	9.1	0.3	0.51
*Blk BLANK	<0.02	<0.01	<0.05	<0.1	<0.05	<0.1	<0.1	<0.05
*Blk BLANK	<0.02	<0.01	<0.05	<0.1	<0.05	<0.1	<0.1	<0.05

Element	@Hg	@In	@La	@Lu	@Mo	@Nb	@Pb	@Rb
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.02	0.1	0.01	0.05	0.05	0.2	0.2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015537	0.31	0.16	3.9	0.13	1.13	<0.05	15.1	7.5
D00015538	1.12	0.11	3.9	0.12	1.93	<0.05	9.2	8.2
D00015539	0.28	<0.02	14.0	0.03	3.58	<0.05	86.1	4.8
D00015540	<0.01	<0.02	<0.1	<0.01	<0.05	<0.05	<0.2	<0.2
D00015541	1.43	<0.02	1.7	0.04	6.61	0.08	624	6.3
D00015542	0.12	<0.02	5.7	0.11	4.54	<0.05	13.0	10.2
D00015543	0.13	0.11	5.7	0.12	17.8	<0.05	11.2	8.2
D00015544	0.22	0.07	5.1	0.12	1.42	<0.05	6.9	11.7
D00015545	0.49	0.30	3.0	0.11	1.69	<0.05	6.2	7.1
D00015546	0.52	0.05	5.7	0.14	2.61	<0.05	6.3	7.4
D00015547	0.37	0.10	3.7	0.11	11.1	<0.05	8.1	10.0
D00015548	0.47	0.11	6.7	0.12	1.78	<0.05	9.6	7.1
D00015549	0.27	0.09	5.4	0.12	2.94	<0.05	7.9	8.8
D00015550	0.06	0.03	5.8	0.08	2.76	<0.05	8.2	10.2
D00015573	0.14	0.03	6.3	0.08	4.69	<0.05	67.4	6.2
D00015574	7.45	0.10	11.4	0.09	12.2	0.05	>10000	8.7
D00015575	0.02	<0.02	8.7	0.15	1.55	<0.05	29.4	3.1
D00015576	0.08	<0.02	6.7	0.13	3.63	<0.05	37.7	3.9
D00015577	0.29	0.30	3.0	0.09	20.6	<0.05	6.3	8.8
D00015578	0.46	0.04	3.1	0.07	6.31	0.06	5.6	5.8
D00015579	0.21	0.06	9.2	0.13	2.11	<0.05	4.1	6.8
D00015580	0.82	0.18	3.4	0.09	1.55	<0.05	13.9	5.2
D00015581	1.06	0.04	4.1	0.07	1.93	<0.05	15.9	8.5
D00015582	13.4	0.03	2.4	0.12	0.36	<0.05	9.6	3.2
D00015583	0.07	<0.02	11.8	0.11	0.39	<0.05	5.6	7.5
D00015584	0.28	<0.02	6.9	0.15	1.07	<0.05	62.8	3.4
D00015585	0.31	<0.02	10.8	0.08	4.21	<0.05	29.8	7.3
D00015586	0.06	0.02	0.9	0.02	2.52	0.05	99.0	4.3
D00015587	0.15	0.03	5.7	0.06	5.20	<0.05	161	6.9
D00015588	0.86	0.47	1.6	0.08	7.22	0.20	163	4.6
D00015643	0.13	0.07	4.8	0.10	2.55	<0.05	281	10.8
D00015644	2.58	0.29	2.3	0.18	8.75	0.05	207	6.1
D00015645	0.31	0.11	2.1	0.14	1.68	<0.05	72.1	8.9
D00015646	0.31	0.18	1.6	0.03	7.24	<0.05	32.4	9.9
D00015647	0.11	0.08	3.4	0.07	10.6	<0.05	3.1	9.8
D00015648	0.16	0.12	3.6	0.10	2.94	<0.05	4.1	9.1
*Dup D00015648	0.16	0.12	3.6	0.11	2.72	<0.05	3.6	11.1
D00015649	0.56	0.15	5.1	0.11	3.47	<0.05	3.1	7.9
D00015650	0.18	0.22	3.7	0.10	12.5	<0.05	9.2	7.2
D00015651	0.19	0.08	6.1	0.14	3.05	<0.05	4.4	10.4

Element	@Hg	@In	@La	@Lu	@Mo	@Nb	@Pb	@Rb
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.02	0.1	0.01	0.05	0.05	0.2	0.2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015652	0.18	0.19	2.6	0.08	3.19	<0.05	3.9	7.3
D00015653	0.34	0.24	4.0	0.10	4.99	<0.05	4.8	8.7
D00015654	25.6	0.05	5.8	0.13	24.1	<0.05	>10000	4.7
D00015655	27.5	0.03	5.1	0.13	31.1	<0.05	>10000	6.3
D00015656	19.4	0.04	5.3	0.17	4.87	<0.05	9840	4.9
D00015657	0.12	<0.02	8.5	0.10	0.53	<0.05	23.3	5.1
D00015658	0.16	0.30	1.8	0.04	2.17	<0.05	40.4	5.3
D00015659	0.11	0.04	2.6	0.06	21.9	<0.05	5.6	11.6
D00015660	0.12	0.05	3.9	0.09	6.46	<0.05	8.7	11.3
D00015661	0.41	0.16	4.6	0.10	2.11	<0.05	8.5	7.9
D00015662	0.48	0.14	3.9	0.13	3.48	<0.05	14.8	8.8
D00015663	0.62	0.09	4.8	0.14	2.25	<0.05	32.6	9.8
D00015664	0.33	2.09	4.4	0.12	5.20	<0.05	106	4.9
D00015665	0.35	1.04	4.4	0.09	0.66	<0.05	9.1	3.5
D00015666	0.31	0.13	4.0	0.12	1.94	<0.05	3.5	9.2
D00015667	0.09	0.05	5.1	0.06	2.10	1.44	5.7	8.3
D00015670	0.20	0.07	3.8	0.08	0.95	<0.05	32.7	6.2
D00015671	0.05	0.11	2.3	0.15	3.62	<0.05	2.1	5.0
D00015672	0.06	0.07	3.6	0.18	9.41	<0.05	3.5	7.1
D00015673	0.03	0.04	2.9	0.14	13.0	<0.05	1.8	5.2
D00015801	0.01	<0.02	13.4	0.12	0.54	0.25	11.0	8.1
D00015802	0.08	<0.02	9.9	0.11	0.59	0.07	9.5	5.3
D00015803	0.01	<0.02	13.6	0.13	0.51	0.27	17.2	9.9
D00015804	0.08	<0.02	10.1	0.12	0.59	0.08	11.4	5.0
D00015805	0.38	0.16	16.8	0.12	6.99	<0.05	6.7	5.1
D00015901	0.01	<0.02	14.3	0.13	0.56	0.25	12.4	9.8
D00015902	0.20	0.08	1.3	0.10	6.60	<0.05	5.5	9.9
D00015903	0.08	0.07	2.9	0.10	9.98	<0.05	2.4	8.4
D00015904	0.09	0.08	4.9	0.14	70.4	<0.05	5.7	5.9
D00015905	0.03	<0.02	3.2	0.09	0.95	<0.05	2.1	6.9
D00015906	0.08	0.04	4.0	0.10	14.1	<0.05	6.1	5.3
*Rep D00015575	0.02	<0.02	8.4	0.14	1.57	<0.05	27.9	3.0
*Rep D00015652	0.16	0.19	2.6	0.08	2.45	<0.05	3.9	7.5
*Rep D00015801	0.01	<0.02	13.7	0.12	0.52	0.24	11.1	8.3

Element	@Hg	@In	@La	@Lu	@Mo	@Nb	@Pb	@Rb
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.02	0.1	0.01	0.05	0.05	0.2	0.2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Std OREAS503B	0.02	0.38	26.9	0.22	314	1.16	12.8	105
*Std OREAS503B	0.03	0.39	25.2	0.23	310	1.20	13.0	113
*Blk BLANK	<0.01	<0.02	<0.1	<0.01	<0.05	<0.05	<0.2	<0.2
*Blk BLANK	<0.01	<0.02	<0.1	<0.01	<0.05	<0.05	<0.2	<0.2

Element	@Sb	@Sc	@Se	@Sn	@Ta	@Tb	@Te	@Th
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.05	0.1	1	0.3	0.05	0.02	0.05	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015537	0.52	6.7	7	<0.3	<0.05	0.18	0.57	1.0
D00015538	0.87	7.6	6	<0.3	<0.05	0.16	0.20	0.9
D00015539	5.74	1.3	<1	<0.3	<0.05	0.14	<0.05	1.6
D00015540	<0.05	<0.1	<1	<0.3	<0.05	<0.02	<0.05	<0.1
D00015541	95.6	2.2	<1	<0.3	<0.05	0.12	<0.05	0.4
D00015542	1.44	4.4	8	<0.3	<0.05	0.19	0.19	1.2
D00015543	0.42	6.0	2	<0.3	<0.05	0.19	0.17	1.5
D00015544	0.60	7.2	3	<0.3	<0.05	0.19	0.63	1.3
D00015545	0.63	4.7	4	<0.3	<0.05	0.13	0.56	1.6
D00015546	0.38	4.5	1	<0.3	<0.05	0.22	0.17	2.1
D00015547	0.53	3.2	4	<0.3	<0.05	0.17	0.36	1.9
D00015548	0.41	5.7	4	<0.3	<0.05	0.23	0.28	1.1
D00015549	0.45	3.9	6	<0.3	<0.05	0.18	0.67	1.8
D00015550	1.12	4.0	4	<0.3	<0.05	0.13	<0.05	1.3
D00015573	0.35	4.4	7	<0.3	<0.05	0.15	0.34	0.8
D00015574	4.42	1.5	2	<0.3	<0.05	0.28	0.30	1.5
D00015575	1.54	2.8	<1	<0.3	<0.05	0.45	<0.05	0.3
D00015576	0.31	6.7	<1	<0.3	<0.05	0.32	<0.05	0.6
D00015577	1.36	3.5	12	<0.3	<0.05	0.16	0.61	1.6
D00015578	0.25	4.5	3	<0.3	<0.05	0.14	0.50	1.3
D00015579	0.23	6.1	1	<0.3	<0.05	0.29	<0.05	1.5
D00015580	0.51	4.5	5	<0.3	<0.05	0.16	0.58	1.3
D00015581	0.84	3.1	1	<0.3	<0.05	0.15	0.20	0.6
D00015582	203	5.8	<1	<0.3	<0.05	0.27	<0.05	1.5
D00015583	0.59	4.5	<1	<0.3	<0.05	0.32	<0.05	2.3
D00015584	1.50	4.5	<1	<0.3	<0.05	0.36	<0.05	1.2
D00015585	0.62	3.7	<1	<0.3	<0.05	0.28	<0.05	1.3
D00015586	2.12	4.1	2	<0.3	<0.05	0.10	0.56	1.3
D00015587	4.84	4.5	2	<0.3	<0.05	0.30	0.44	1.2
D00015588	1.48	2.2	7	<0.3	<0.05	0.15	5.84	0.6
D00015643	0.81	10.1	3	<0.3	<0.05	0.17	0.67	0.9
D00015644	3.88	3.9	7	<0.3	<0.05	0.32	2.60	0.7
D00015645	1.35	6.1	3	<0.3	<0.05	0.23	0.21	1.3
D00015646	4.18	2.3	9	<0.3	<0.05	0.07	0.23	2.0
D00015647	1.40	4.9	3	<0.3	<0.05	0.11	0.17	1.7
D00015648	0.53	5.3	8	<0.3	<0.05	0.17	0.13	1.8
*Dup D00015648	0.59	5.9	8	<0.3	<0.05	0.17	0.10	1.8
D00015649	0.67	5.1	10	<0.3	<0.05	0.16	0.26	1.6
D00015650	2.76	4.8	18	<0.3	<0.05	0.17	0.26	1.4
D00015651	0.58	6.5	5	<0.3	<0.05	0.19	0.18	2.1

Element	@Sb	@Sc	@Se	@Sn	@Ta	@Tb	@Te	@Th
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.05	0.1	1	0.3	0.05	0.02	0.05	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015652	1.08	4.9	12	<0.3	<0.05	0.12	0.08	1.2
D00015653	0.99	7.1	15	<0.3	<0.05	0.15	0.50	1.2
D00015654	3.78	1.9	5	<0.3	<0.05	0.21	<0.05	0.9
D00015655	24.4	2.0	6	<0.3	<0.05	0.20	<0.05	1.1
D00015656	4.45	4.2	2	<0.3	<0.05	0.49	0.08	0.7
D00015657	0.96	5.2	<1	<0.3	<0.05	0.28	<0.05	2.3
D00015658	3.28	5.5	12	0.3	<0.05	0.09	0.32	0.6
D00015659	0.30	5.1	3	<0.3	<0.05	0.10	0.29	1.4
D00015660	0.97	5.3	4	<0.3	<0.05	0.18	0.66	0.8
D00015661	0.42	4.5	6	<0.3	<0.05	0.14	0.20	1.9
D00015662	1.84	4.4	7	<0.3	<0.05	0.17	0.83	1.7
D00015663	1.86	2.5	3	<0.3	<0.05	0.31	0.25	1.2
D00015664	4.43	7.1	4	<0.3	<0.05	0.26	1.74	0.7
D00015665	10.8	1.1	29	2.3	<0.05	0.18	<0.05	0.4
D00015666	0.82	5.8	4	<0.3	<0.05	0.18	0.18	1.0
D00015667	1.07	4.1	2	<0.3	<0.05	0.11	0.20	1.4
D00015670	1.62	10.6	<1	<0.3	<0.05	0.19	3.26	0.4
D00015671	2.13	11.6	4	<0.3	<0.05	0.19	0.33	0.5
D00015672	0.47	5.8	3	<0.3	<0.05	0.28	0.09	0.8
D00015673	0.98	7.4	2	<0.3	<0.05	0.22	0.14	1.3
D00015801	1.09	5.2	<1	0.3	<0.05	0.36	<0.05	1.5
D00015802	0.81	8.3	<1	<0.3	<0.05	0.28	<0.05	0.9
D00015803	1.31	6.4	<1	0.4	<0.05	0.38	<0.05	1.7
D00015804	0.95	8.2	<1	<0.3	<0.05	0.30	<0.05	0.9
D00015805	1.58	10.2	1	<0.3	<0.05	0.23	0.13	1.4
D00015901	1.47	6.3	<1	0.4	<0.05	0.39	<0.05	1.8
D00015902	1.20	7.2	4	<0.3	<0.05	0.13	0.49	1.0
D00015903	1.35	6.9	3	<0.3	<0.05	0.15	0.24	0.8
D00015904	0.44	10.1	4	<0.3	<0.05	0.23	0.19	1.0
D00015905	0.32	4.8	<1	<0.3	<0.05	0.14	0.15	0.7
D00015906	1.18	10.9	5	<0.3	<0.05	0.22	0.44	0.6
*Rep D00015575	1.54	2.7	<1	<0.3	<0.05	0.44	<0.05	0.3
*Rep D00015652	1.09	4.8	12	<0.3	<0.05	0.12	0.07	1.1
*Rep D00015801	1.15	5.4	<1	0.3	<0.05	0.37	<0.05	1.5

Element	@Sb	@Sc	@Se	@Sn	@Ta	@Tb	@Te	@Th
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.05	0.1	1	0.3	0.05	0.02	0.05	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Std OREAS503B	0.42	6.9	5	6.7	<0.05	0.53	0.14	14.9
*Std OREAS503B	0.44	7.8	6	7.0	<0.05	0.53	0.13	14.4
*Blk BLANK	<0.05	<0.1	<1	<0.3	<0.05	<0.02	<0.05	<0.1
*Blk BLANK	<0.05	<0.1	<1	<0.3	<0.05	<0.02	<0.05	<0.1

Element	@Tl	@U	@W	@Y	@Yb	@S	Cu	Fe
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_CSA06V	GO_ICP13B	GO_ICP13B
Det.Lim.	0.02	0.05	0.1	0.05	0.1	0.005	0.01	0.1
Units	ppm	ppm	ppm	ppm	ppm	%	%	%
D00015537	0.08	0.25	<0.1	5.93	0.8	N.A.	N.A.	N.A.
D00015538	0.11	0.17	0.1	4.91	0.7	N.A.	N.A.	N.A.
D00015539	0.74	0.44	<0.1	2.39	0.2	N.A.	N.A.	N.A.
D00015540	<0.02	<0.05	<0.1	<0.05	<0.1	N.A.	N.A.	N.A.
D00015541	11.4	0.51	<0.1	3.47	0.3	9.70	N.A.	N.A.
D00015542	0.12	0.25	<0.1	5.36	0.7	N.A.	N.A.	N.A.
D00015543	0.07	0.50	<0.1	5.50	0.7	N.A.	N.A.	N.A.
D00015544	0.12	0.23	<0.1	5.83	0.7	N.A.	N.A.	N.A.
D00015545	0.08	0.27	<0.1	4.44	0.7	N.A.	N.A.	N.A.
D00015546	0.07	0.21	<0.1	8.10	0.9	N.A.	N.A.	N.A.
D00015547	0.09	0.28	<0.1	5.96	0.7	N.A.	N.A.	N.A.
D00015548	0.07	0.15	<0.1	6.18	0.8	N.A.	N.A.	N.A.
D00015549	0.07	0.25	<0.1	6.14	0.7	N.A.	N.A.	N.A.
D00015550	0.08	0.15	<0.1	3.61	0.5	N.A.	N.A.	N.A.
D00015573	0.07	0.22	<0.1	4.67	0.6	N.A.	N.A.	N.A.
D00015574	0.87	4.41	<0.1	6.60	0.7	6.11	N.A.	N.A.
D00015575	0.04	0.14	<0.1	15.2	1.1	N.A.	N.A.	N.A.
D00015576	0.09	0.41	<0.1	7.90	0.8	N.A.	N.A.	N.A.
D00015577	0.09	0.41	<0.1	4.81	0.6	N.A.	N.A.	N.A.
D00015578	0.04	0.26	<0.1	4.71	0.5	N.A.	N.A.	N.A.
D00015579	0.04	0.24	<0.1	9.27	0.9	N.A.	N.A.	N.A.
D00015580	0.05	0.16	<0.1	5.33	0.6	N.A.	N.A.	N.A.
D00015581	0.08	0.08	0.2	4.99	0.5	N.A.	N.A.	N.A.
D00015582	0.04	0.36	<0.1	8.23	0.7	N.A.	N.A.	N.A.
D00015583	0.08	0.65	<0.1	6.51	0.7	N.A.	N.A.	N.A.
D00015584	0.18	4.45	<0.1	9.78	1.0	N.A.	N.A.	N.A.
D00015585	1.00	0.70	<0.1	5.99	0.6	N.A.	N.A.	N.A.
D00015586	0.26	0.19	<0.1	1.77	0.2	N.A.	N.A.	N.A.
D00015587	3.02	0.24	<0.1	5.22	0.4	N.A.	N.A.	N.A.
D00015588	0.06	13.2	0.8	5.96	0.7	21.6	N.A.	21.1
D00015643	0.08	0.44	0.1	5.44	0.7	N.A.	N.A.	N.A.
D00015644	0.09	0.40	<0.1	11.2	1.2	8.26	N.A.	N.A.
D00015645	0.10	0.17	<0.1	8.15	0.9	N.A.	N.A.	N.A.
D00015646	0.13	0.25	<0.1	2.00	0.2	N.A.	N.A.	N.A.
D00015647	0.08	0.20	<0.1	3.98	0.4	N.A.	N.A.	N.A.
D00015648	0.07	0.25	<0.1	5.09	0.6	N.A.	N.A.	N.A.
*Dup D00015648	0.08	0.26	<0.1	5.16	0.6	N.A.	N.A.	N.A.
D00015649	0.05	0.28	<0.1	4.54	0.7	N.A.	N.A.	N.A.
D00015650	0.06	0.35	<0.1	5.75	0.7	N.A.	1.08	N.A.
D00015651	0.10	0.25	<0.1	6.03	0.9	N.A.	N.A.	N.A.

Element	@Tl	@U	@W	@Y	@Yb	@S	Cu	Fe
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_CSA06V	GO_ICP13B	GO_ICP13B
Det.Lim.	0.02	0.05	0.1	0.05	0.1	0.005	0.01	0.1
Units	ppm	ppm	ppm	ppm	ppm	%	%	%
D00015652	0.06	0.23	0.2	4.43	0.5	N.A.	N.A.	N.A.
D00015653	0.08	0.22	<0.1	5.08	0.6	N.A.	1.02	N.A.
D00015654	0.68	3.84	<0.1	7.69	0.8	6.47	N.A.	N.A.
D00015655	9.82	5.86	<0.1	6.32	0.8	8.63	N.A.	N.A.
D00015656	3.05	10.9	<0.1	14.4	1.2	N.A.	N.A.	N.A.
D00015657	0.05	1.10	<0.1	6.99	0.6	N.A.	N.A.	N.A.
D00015658	0.06	0.08	<0.1	2.45	0.3	N.A.	1.42	N.A.
D00015659	0.07	0.14	<0.1	3.05	0.4	N.A.	N.A.	N.A.
D00015660	0.08	0.13	<0.1	5.68	0.6	N.A.	N.A.	N.A.
D00015661	0.07	0.25	<0.1	4.78	0.6	N.A.	N.A.	N.A.
D00015662	0.07	0.18	<0.1	5.30	0.8	N.A.	N.A.	N.A.
D00015663	0.10	0.25	<0.1	10.5	1.0	N.A.	N.A.	N.A.
D00015664	0.12	0.48	<0.1	9.26	0.9	5.13	N.A.	N.A.
D00015665	0.03	0.07	<0.1	4.62	0.7	12.6	12.5	N.A.
D00015666	0.07	0.17	<0.1	5.76	0.7	N.A.	N.A.	N.A.
D00015667	0.06	0.26	<0.1	2.63	0.4	N.A.	N.A.	N.A.
D00015670	0.10	0.11	<0.1	5.22	0.5	N.A.	N.A.	N.A.
D00015671	0.04	0.08	<0.1	6.70	1.0	N.A.	N.A.	N.A.
D00015672	0.05	0.08	<0.1	8.83	1.1	N.A.	N.A.	N.A.
D00015673	0.03	0.16	<0.1	7.42	0.9	N.A.	N.A.	N.A.
D00015801	0.05	0.71	0.2	9.24	0.9	N.A.	N.A.	N.A.
D00015802	0.03	0.31	<0.1	7.95	0.8	N.A.	N.A.	N.A.
D00015803	0.06	0.86	0.2	9.93	1.0	N.A.	N.A.	N.A.
D00015804	0.03	0.30	<0.1	8.42	0.9	N.A.	N.A.	N.A.
D00015805	0.04	0.37	<0.1	6.41	0.8	N.A.	N.A.	N.A.
D00015901	0.06	0.89	0.3	10.2	1.0	N.A.	N.A.	N.A.
D00015902	0.08	0.18	<0.1	4.39	0.6	N.A.	N.A.	N.A.
D00015903	0.06	0.12	<0.1	4.60	0.6	N.A.	N.A.	N.A.
D00015904	0.04	0.13	<0.1	6.78	0.9	N.A.	N.A.	N.A.
D00015905	0.04	0.07	<0.1	4.20	0.6	N.A.	N.A.	N.A.
D00015906	0.04	0.06	<0.1	7.95	0.8	N.A.	N.A.	N.A.
*Rep D00015575	0.04	0.14	<0.1	14.8	1.1			
*Rep D00015652	0.05	0.22	0.2	4.42	0.5			
*Rep D00015801	0.05	0.73	0.2	9.67	0.9			

Element	@Tl	@U	@W	@Y	@Yb	@S	Cu	Fe
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_CSA06V	GO_ICP13B	GO_ICP13B
Det.Lim.	0.02	0.05	0.1	0.05	0.1	0.005	0.01	0.1
Units	ppm	ppm	ppm	ppm	ppm	%	%	%
*Std OREAS503B	0.59	3.64	2.1	15.6	1.5			
*Std OREAS503B	0.60	4.33	2.1	15.4	1.6			
*Blk BLANK	<0.02	<0.05	<0.1	<0.05	<0.1			
*Blk BLANK	<0.02	<0.05	<0.1	<0.05	<0.1			
*Blk BLANK							<0.01	<0.1
*Rep D00015655							N.A.	N.A.
*Std 879-1							N.A.	N.A.
*Std OREAS131B							N.A.	N.A.
*Std OREAS524							2.51	27.7
*Blk BLANK						<0.005		
*Std OREAS134A						19.5		
*Rep D00015588						21.8		

Element	Mn	Pb	Zn
Method	GO_ICP13B	GO_ICP13B	GO_ICP13B
Det.Lim.	0.01	0.01	0.01
Units	%	%	%
D00015537	N.A.	N.A.	N.A.
D00015538	N.A.	N.A.	N.A.
D00015539	N.A.	N.A.	N.A.
D00015540	N.A.	N.A.	N.A.
D00015541	N.A.	N.A.	N.A.
D00015542	N.A.	N.A.	N.A.
D00015543	N.A.	N.A.	N.A.
D00015544	N.A.	N.A.	N.A.
D00015545	N.A.	N.A.	N.A.
D00015546	N.A.	N.A.	N.A.
D00015547	N.A.	N.A.	N.A.
D00015548	N.A.	N.A.	N.A.
D00015549	N.A.	N.A.	N.A.
D00015550	N.A.	N.A.	N.A.
D00015573	N.A.	N.A.	N.A.
D00015574	N.A.	1.12	2.23
D00015575	N.A.	N.A.	N.A.
D00015576	N.A.	N.A.	N.A.
D00015577	N.A.	N.A.	N.A.
D00015578	N.A.	N.A.	N.A.
D00015579	N.A.	N.A.	N.A.
D00015580	N.A.	N.A.	N.A.
D00015581	N.A.	N.A.	N.A.
D00015582	N.A.	N.A.	N.A.
D00015583	N.A.	N.A.	N.A.
D00015584	N.A.	N.A.	N.A.
D00015585	N.A.	N.A.	N.A.
D00015586	N.A.	N.A.	N.A.
D00015587	N.A.	N.A.	N.A.
D00015588	N.A.	N.A.	N.A.
D00015643	N.A.	N.A.	N.A.
D00015644	N.A.	N.A.	N.A.
D00015645	N.A.	N.A.	N.A.
D00015646	N.A.	N.A.	N.A.
D00015647	N.A.	N.A.	N.A.
D00015648	N.A.	N.A.	N.A.
*Dup D00015648	N.A.	N.A.	N.A.
D00015649	N.A.	N.A.	N.A.
D00015650	N.A.	N.A.	N.A.
D00015651	N.A.	N.A.	N.A.

Final : VC172379 Order: Kinskuch17-02 / 70 samples

Report File No.: 0000026623

Element	Mn	Pb	Zn
Method	GO_ICP13B	GO_ICP13B	GO_ICP13B
Det.Lim.	0.01	0.01	0.01
Units	%	%	%
D00015652	N.A.	N.A.	N.A.
D00015653	N.A.	N.A.	N.A.
D00015654	N.A.	1.06	3.79
D00015655	1.79	5.08	4.47
D00015656	N.A.	N.A.	3.08
D00015657	N.A.	N.A.	N.A.
D00015658	N.A.	N.A.	N.A.
D00015659	N.A.	N.A.	N.A.
D00015660	N.A.	N.A.	N.A.
D00015661	N.A.	N.A.	N.A.
D00015662	N.A.	N.A.	N.A.
D00015663	N.A.	N.A.	N.A.
D00015664	N.A.	N.A.	N.A.
D00015665	N.A.	N.A.	N.A.
D00015666	N.A.	N.A.	N.A.
D00015667	N.A.	N.A.	N.A.
D00015670	N.A.	N.A.	N.A.
D00015671	N.A.	N.A.	N.A.
D00015672	N.A.	N.A.	N.A.
D00015673	N.A.	N.A.	N.A.
D00015801	N.A.	N.A.	N.A.
D00015802	N.A.	N.A.	N.A.
D00015803	N.A.	N.A.	N.A.
D00015804	N.A.	N.A.	N.A.
D00015805	N.A.	N.A.	N.A.
D00015901	N.A.	N.A.	N.A.
D00015902	N.A.	N.A.	N.A.
D00015903	N.A.	N.A.	N.A.
D00015904	N.A.	N.A.	N.A.
D00015905	N.A.	N.A.	N.A.
D00015906	N.A.	N.A.	N.A.

Element	Mn	Pb	Zn
Method	GO_ICP13B	GO_ICP13B	GO_ICP13B
Det.Lim.	0.01	0.01	0.01
Units	%	%	%
*Blk BLANK	<0.01	<0.01	<0.01
*Rep D00015655	1.79	5.11	4.51
*Std 879-1	3.48	N.A.	N.A.
*Std OREAS131B	N.A.	1.92	2.95
*Std OREAS524	N.A.	N.A.	N.A.

Certificate of Analysis
Work Order : VC173511
[Report File No.: 0000026621]

Date: December 14, 2017

To: **George Cavey**
OK2 MINERALS LTD
SUITE 1780-400 BURRARD ST
VANCOUVER BC V6C 3A6

P.O. No.: Kinskuch17-03 / 12 samples
Project No.: KINSKUCH
Samples: 12
Received: Oct 6, 2017
Pages: Page 1 to 8
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
12	G_LOG02	Pre-preparation processing, sorting, logging, boxing
12	G_WGH79	Weighing of samples and reporting of weights
12	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
12	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
12	GE_IC14A	Aqua Regia digestion/ICP-AES finish
12	GE_IC14M	Aqua Regia digestion/ICP-MS finish
3	GE_CSA06V	Total Sulfur and Total Carbon, Leco Method
1	GO_ICP13B	Ore Grade, Aqua Regia Diges/ICP-AES

Storage: Pulp & Reject

REJECT STORAGE	:	PAID STORE AFTER 30 DAYS
PULP STORAGE	:	PAID STORE AFTER 90 DAYS

Comments:

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

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result
*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

Final : VC173511 Order: Kinskuch17-03 / 12 samples

Report File No.: 0000026621

Element	WtKg	@Au	@Ag	@Al	@Ba	@Ca	@Cr	@Cu
Method	G_WGH79	GE_FAA313	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	5	0.01	0.01	5	0.01	1	0.5
Units	kg	ppb	ppm	%	ppm	%	ppm	ppm
D00015589	1.210	88	0.76	1.15	127	3.51	8	1070
D00015590	1.285	32	0.52	1.92	328	0.50	11	733
D00015669	0.725	12	0.45	0.55	83	4.37	5	92.7
D00015674	1.220	31	0.26	1.83	148	2.02	11	106
D00015675	0.915	47	1.85	0.93	67	2.46	4	1420
D00015676	1.930	4280	21.6	2.11	79	4.44	6	>10000
D00015677	1.320	465	3.04	0.78	134	0.19	9	206
D00015907	1.310	75	0.34	0.71	369	4.46	7	1180
D00015908	1.630	23	0.22	1.03	218	3.53	10	351
D00015909	1.445	49	0.50	1.52	130	2.22	9	262
D00015910	1.010	6	0.11	2.54	115	1.17	21	17.3
D00015911	0.745	2140	6.66	0.26	60	0.11	10	92.5
*Rep D00015674		31						
*Std OREAS222		1260						
*Blk BLANK		<5						
*Rep D00015676			21.0	2.04	148	4.37	5	>10000
*Std OREAS503B			1.58	2.08	324	1.28	84	5380
*Blk BLANK			<0.01	<0.01	<5	<0.01	<1	<0.5

Final : VC173511 Order: Kinskuch17-03 / 12 samples

Report File No.: 0000026621

Element	@Fe	@K	@Li	@Mg	@Mn	@Na	@Ni	@P
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.01	1	0.01	2	0.01	0.5	0.01
Units	%	%	ppm	%	ppm	%	ppm	%
D00015589	4.24	0.53	13	0.83	970	0.03	3.8	0.12
D00015590	4.04	0.40	19	1.07	579	0.02	5.0	0.10
D00015669	4.47	0.27	2	1.08	1510	0.03	3.9	0.12
D00015674	5.65	0.43	28	1.35	710	0.04	5.4	0.13
D00015675	6.52	0.46	5	0.28	963	0.02	6.7	0.13
D00015676	12.2	0.30	21	1.18	804	0.02	111	0.55
D00015677	3.27	0.41	3	0.19	157	0.02	5.2	0.09
D00015907	3.67	0.42	6	0.81	861	0.04	4.0	0.11
D00015908	3.47	0.34	15	1.36	754	0.06	3.5	0.12
D00015909	5.02	0.43	12	1.05	546	0.03	3.9	0.11
D00015910	5.47	0.33	36	2.28	1000	0.06	8.8	0.11
D00015911	11.9	0.07	2	0.05	560	<0.01	4.4	0.02
*Rep D00015676	11.8	0.30	20	1.14	780	0.02	107	0.53
*Std OREAS503B	5.01	1.02	32	1.21	402	0.18	34.7	0.11
*Blk BLANK	<0.01	<0.01	<1	<0.01	<2	<0.01	<0.5	<0.01

Final : VC173511 Order: Kinskuch17-03 / 12 samples

Report File No.: 0000026621

Element	@S	@Sr	@Ti	@V	@Zn	@Zr	@As	@Be
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.5	0.01	1	1	0.5	1	0.1
Units	%	ppm	%	ppm	ppm	ppm	ppm	ppm
D00015589	1.37	75.0	<0.01	67	45	1.7	12	0.2
D00015590	1.19	67.0	<0.01	52	64	1.6	16	0.3
D00015669	4.65	87.1	<0.01	15	141	2.0	29	0.3
D00015674	2.60	103	<0.01	117	65	2.3	17	0.3
D00015675	>5.00	49.8	<0.01	19	30	2.5	27	0.4
D00015676	>5.00	74.7	<0.01	206	1080	3.6	17	0.2
D00015677	2.58	11.6	<0.01	28	1580	1.5	372	0.2
D00015907	1.17	135	<0.01	44	27	1.6	17	0.2
D00015908	0.79	151	<0.01	99	39	1.4	18	0.3
D00015909	3.49	53.2	<0.01	71	21	1.9	8	0.3
D00015910	3.02	32.0	<0.01	117	82	2.0	7	0.3
D00015911	>5.00	3.7	<0.01	11	257	3.5	691	<0.1
*Rep D00015676	>5.00	79.2	<0.01	201	1050	3.6	17	0.3
*Std OREAS503B	0.69	83.0	0.34	120	81	13.1	21	0.5
*Blk BLANK	<0.01	<0.5	<0.01	<1	<1	<0.5	<1	<0.1

Final : VC173511 Order: Kinskuch17-03 / 12 samples

Report File No.: 0000026621

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga	@Ge	@Hf
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.02	0.01	0.05	0.1	0.05	0.1	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015589	0.15	0.07	11.2	17.3	3.57	3.0	<0.1	<0.05
D00015590	0.11	0.02	14.7	16.3	2.71	5.1	<0.1	<0.05
D00015669	0.58	0.64	9.67	13.2	1.47	1.1	<0.1	<0.05
D00015674	0.26	0.06	10.5	24.4	3.44	6.1	<0.1	<0.05
D00015675	0.51	0.08	9.68	29.6	2.69	1.8	<0.1	<0.05
D00015676	1.07	5.75	25.2	48.3	1.50	6.7	0.1	<0.05
D00015677	0.76	19.3	13.7	10.2	2.64	2.0	<0.1	<0.05
D00015907	0.10	0.07	10.4	12.7	2.84	1.8	<0.1	<0.05
D00015908	0.09	0.04	11.9	10.3	3.51	3.4	<0.1	<0.05
D00015909	0.27	0.03	6.89	14.7	2.07	4.8	<0.1	<0.05
D00015910	0.26	0.07	14.0	18.9	3.91	6.4	<0.1	<0.05
D00015911	0.12	1.92	5.38	7.4	0.84	1.0	<0.1	<0.05
*Rep D00015676	1.05	5.92	25.6	47.5	1.63	6.8	0.1	<0.05
*Std OREAS503B	2.89	0.45	54.6	15.9	8.63	9.0	0.3	0.46
*Blk BLANK	<0.02	<0.01	<0.05	<0.1	<0.05	<0.1	<0.1	<0.05

Final : VC173511 Order: Kinskuch17-03 / 12 samples

Report File No.: 0000026621

Element	@Hg	@In	@La	@Lu	@Mo	@Nb	@Pb	@Rb
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.02	0.1	0.01	0.05	0.05	0.2	0.2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015589	0.05	0.06	4.5	0.16	17.5	<0.05	9.6	15.3
D00015590	0.05	0.03	6.9	0.04	2.79	<0.05	4.7	12.7
D00015669	0.42	0.04	4.4	0.09	1.88	0.05	80.7	7.7
D00015674	0.14	0.06	4.7	0.12	2.79	<0.05	6.2	13.0
D00015675	0.18	0.06	4.0	0.14	8.03	<0.05	7.5	13.7
D00015676	1.47	1.34	11.2	0.23	64.6	<0.05	16.8	8.3
D00015677	0.50	0.08	6.5	0.03	6.22	<0.05	839	11.9
D00015907	0.17	0.09	4.4	0.17	7.77	<0.05	4.2	11.2
D00015908	0.15	0.09	5.1	0.13	3.03	<0.05	3.0	9.8
D00015909	0.11	<0.02	3.2	0.09	4.15	<0.05	3.0	11.8
D00015910	0.09	0.04	7.9	0.09	0.65	<0.05	14.3	9.1
D00015911	1.08	0.13	2.6	0.05	57.0	0.06	197	2.8
*Rep D00015676	1.47	1.41	11.1	0.23	57.0	<0.05	17.2	8.6
*Std OREAS503B	0.04	0.38	26.7	0.22	302	1.35	13.4	103
*Blk BLANK	<0.01	<0.02	<0.1	<0.01	<0.05	<0.05	<0.2	<0.2

Final : VC173511 Order: Kinskuch17-03 / 12 samples

Report File No.: 0000026621

Element	@Sb	@Sc	@Se	@Sn	@Ta	@Tb	@Te	@Th
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.05	0.1	1	0.3	0.05	0.02	0.05	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00015589	2.05	9.0	5	0.5	<0.05	0.23	0.15	1.1
D00015590	0.85	4.4	1	0.4	<0.05	0.16	0.11	1.1
D00015669	3.32	4.9	3	0.3	<0.05	0.27	0.22	0.4
D00015674	3.36	12.4	4	0.5	<0.05	0.21	0.22	1.2
D00015675	1.58	4.3	6	0.3	<0.05	0.38	2.58	0.8
D00015676	19.9	8.4	38	1.9	<0.05	0.65	1.82	22.7
D00015677	5.01	4.0	4	0.5	<0.05	0.16	0.41	0.5
D00015907	7.74	11.7	4	0.5	<0.05	0.29	0.16	1.0
D00015908	11.4	16.4	2	0.4	<0.05	0.22	0.06	1.2
D00015909	1.56	6.2	3	0.4	<0.05	0.20	0.63	0.9
D00015910	0.33	13.8	3	0.4	<0.05	0.31	0.21	0.3
D00015911	42.8	2.7	12	0.3	<0.05	0.15	<0.05	<0.1
*Rep D00015676	21.3	8.6	37	2.1	<0.05	0.67	1.93	24.4
*Std OREAS503B	0.48	7.8	6	7.5	<0.05	0.60	0.09	16.5
*Blk BLANK	<0.05	<0.1	<1	<0.3	<0.05	<0.02	<0.05	<0.1

Final : VC173511 Order: Kinskuch17-03 / 12 samples

Report File No.: 0000026621

Element	@Tl	@U	@W	@Y	@Yb	@S	Cu
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_CSA06V	GO_ICP13B
Det.Lim.	0.02	0.05	0.1	0.05	0.1	0.005	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	%
D00015589	0.16	0.37	0.5	6.70	1.0	N.A.	N.A.
D00015590	0.13	0.12	0.4	3.30	0.3	N.A.	N.A.
D00015669	0.12	0.07	0.8	6.94	0.6	N.A.	N.A.
D00015674	0.11	0.43	0.6	6.31	0.8	N.A.	N.A.
D00015675	0.15	0.09	0.8	10.4	1.0	6.20	N.A.
D00015676	0.10	1.35	1.4	18.9	1.5	8.24	7.26
D00015677	0.15	0.09	0.3	2.83	0.2	N.A.	N.A.
D00015907	0.12	0.29	0.3	8.92	1.0	N.A.	N.A.
D00015908	0.09	0.30	0.2	6.32	0.8	N.A.	N.A.
D00015909	0.10	0.12	0.3	5.49	0.6	N.A.	N.A.
D00015910	0.11	0.08	0.3	7.75	0.7	N.A.	N.A.
D00015911	3.03	<0.05	0.7	2.90	0.3	9.77	N.A.
*Rep D00015676						8.19	
*Std OREAS623						9.15	
*Blk BLANK						<0.005	
*Rep D00015676	0.11	1.40	1.4	19.6	1.5		
*Std OREAS503B	0.67	4.45	2.7	15.5	1.5		
*Blk BLANK	<0.02	<0.05	<0.1	<0.05	<0.1		
*Blk BLANK							<0.01
*Rep D00015676							7.24
*Std OREAS934							9.85

Certificate of Analysis
Work Order : VC172273
[Report File No.: 0000026625]

Date: December 14, 2017

To: **George Cavey**
OK2 MINERALS LTD
SUITE 1780-400 BURRARD ST
VANCOUVER BC V6C 3A6

P.O. No.: Kinskuch17-01 / 119 samples
Project No.: KINSKUCH
Samples: 76
Received: Jul 27, 2017
Pages: Page 1 to 25
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IC14A	Aqua Regia digestion/ICP-AES finish
76	GE_IC14M	Aqua Regia digestion/ICP-MS finish
1	GO_FAG313	Ag FAS, Gravimetric, 30g
2	GO_ICP13B	Ore Grade, Aqua Regia Diges/ICP-AES
6	GE_CSA06V	Total Sulfur and Total Carbon, Leco Method

Storage: Pulp & Reject

REJECT STORAGE	:	PAID STORE AFTER 30 DAYS
PULP STORAGE	:	PAID STORE AFTER 90 DAYS

Comments:

Results may be subject to analytical interference.
Ag results by GO_FAG313 over 5000g/t are informational only.
Upon Client's request, this Certificate/Report has been issued in more than one original. Only the first original is a legally binding document and may be used for any legal purpose, including payment.

Certified By :
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

Element	WtKg	@Au	@Ag	@Al	@Ba	@Ca	@Cr	@Cu
Method	G_WGH79	GE_FAA313	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	5	0.01	0.01	5	0.01	1	0.5
Units	kg	ppb	ppm	%	ppm	%	ppm	ppm
D00014531	0.820	22	0.44	1.69	94	3.79	11	90.8
D00014532	1.765	168	1.81	1.96	104	1.51	5	3800
D00014533	1.405	36	0.28	0.75	101	2.90	5	388
D00014534	1.490	83	3.13	0.80	74	3.05	2	1820
D00014535	2.130	31	0.13	1.79	333	2.73	12	64.7
D00014536	1.070	288	0.94	1.49	145	0.33	11	438
D00014538	1.340	31	0.34	2.98	57	1.35	43	50.2
D00014539	1.035	59	1.23	1.88	210	0.61	<1	206
D00014540	1.500	46	0.22	2.71	141	1.69	9	435
D00014541	1.125	39	0.22	2.06	127	1.45	8	330
D00014542	0.980	33	0.10	1.69	530	3.69	5	336
D00014543	1.055	108	0.86	1.14	231	0.31	6	342
D00014544	1.415	18	0.27	0.43	51	2.11	2	175
D00014545	1.170	106	1.09	0.50	82	0.31	4	236
D00014546	0.565	31	0.20	1.98	135	3.53	7	379
D00014547	1.280	588	2.79	3.12	106	3.59	8	3680
D00014548	1.290	36	0.22	1.86	995	1.46	5	1110
D00014549	1.225	52	0.29	2.06	719	1.43	10	2840
D00014550	1.105	50	0.26	1.92	754	1.45	7	1950
D00015501	1.095	95	0.22	1.74	1540	2.51	10	1150
D00015502	1.800	287	0.80	2.17	99	0.38	6	652
D00015503	1.290	70	0.20	2.90	222	2.26	11	981
D00015504	1.800	304	1.42	2.31	144	0.86	7	7830
D00015505	2.030	101	1.00	1.68	116	1.07	9	2520
D00015506	1.985	105	0.40	2.04	72	1.85	6	480
D00015507	1.285	11	0.08	0.49	112	3.39	2	25.0
D00015508	1.050	34	0.55	0.45	116	2.73	2	592
D00015509	0.870	58	0.16	1.27	122	3.06	5	280
D00015510	0.985	165	0.36	0.62	83	1.53	2	1590
D00015511	1.280	16	0.45	1.15	231	4.40	3	1280
D00015512	0.910	58	0.57	2.06	134	0.24	9	38.9
D00015513	1.195	100	0.31	2.46	179	0.26	8	115
D00015514	1.310	66	0.28	1.61	408	1.96	7	1860
D00015515	1.185	30	0.34	1.32	86	2.18	2	325
D00015516	0.965	26	0.09	1.54	279	1.56	6	62.1
D00015517	0.990	46	0.11	2.21	147	1.49	8	70.4
D00015518	0.950	22	0.24	1.90	119	3.45	9	184
D00015519	0.960	15	0.07	2.41	257	2.38	15	5.9
D00015520	1.250	25	0.31	1.69	138	2.53	6	159
D00015521	2.105	338	1.60	1.87	134	3.74	7	7460

Element	WtKg	@Au	@Ag	@Al	@Ba	@Ca	@Cr	@Cu
Method	G_WGH79	GE_FAA313	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	5	0.01	0.01	5	0.01	1	0.5
Units	kg	ppb	ppm	%	ppm	%	ppm	ppm
*Dup D00015521	N.A.	323	1.44	1.79	145	3.44	6	6880
D00015522	0.920	36	0.17	1.74	92	1.93	10	122
D00015523	1.255	93	0.48	1.90	859	1.93	8	2740
D00015524	0.805	374	1.77	1.83	196	1.50	15	7760
D00015525	1.190	110	1.19	1.83	109	1.63	8	3010
D00015526	1.185	15	0.22	1.54	51	5.34	22	138
D00015527	1.375	294	1.09	1.95	76	2.68	8	2450
D00015528	1.210	48	0.26	2.38	84	1.61	7	58.6
D00015529	1.225	18	0.35	1.40	129	2.74	5	21.1
D00015530	1.150	20	0.07	2.01	106	1.65	12	42.1
D00015531	0.905	32	0.10	2.11	90	2.57	9	71.5
D00015532	1.610	96	0.51	0.43	52	6.52	2	61.6
D00015533	1.045	31	0.26	1.70	45	2.87	8	258
D00015534	1.225	100	>100	0.03	12	0.09	<1	>10000
D00015535	1.155	117	6.31	1.22	253	1.18	6	1650
D00015536	0.980	169	2.13	4.89	44	0.56	16	905
D00015551	1.565	107	0.53	2.60	329	2.69	6	4190
D00015552	1.195	119	0.98	2.54	833	2.40	9	4060
D00015553	0.995	33	0.32	0.81	82	4.63	4	748
D00015554	1.550	23	0.28	1.40	88	2.02	5	614
D00015555	1.235	42	0.73	2.03	105	3.01	10	66.6
D00015556	1.020	17	0.08	0.57	199	2.83	5	28.4
D00015557	1.290	11	0.17	1.27	158	3.60	8	307
D00015558	1.585	31	0.10	1.55	102	1.79	6	77.9
D00015559	1.315	54	0.33	1.34	137	3.03	2	5.0
D00015560	1.075	108	0.61	2.12	72	0.22	5	49.8
D00015561	0.790	115	2.67	0.84	120	0.27	2	5020
D00015562	1.340	159	1.34	1.17	635	1.93	7	4090
D00015563	1.215	23	0.23	0.81	202	2.88	6	292
D00015564	1.185	46	0.38	1.88	145	2.38	10	94.1
D00015565	0.895	104	0.95	1.33	82	3.04	4	1900
D00015566	1.390	89	1.26	1.26	63	4.59	5	769
D00015567	1.055	568	0.47	0.08	327	0.67	9	36.9
D00015568	1.115	192	0.68	1.89	161	1.81	14	4490
D00015569	0.915	50	0.24	2.02	196	1.05	6	173
D00015570	2.170	314	4.37	0.56	121	3.63	3	>10000
D00015571	0.810	49	0.93	1.10	94	1.71	5	1570
*Rep D00014543			0.79	1.20	236	0.32	6	360
*Rep D00015522			0.17	1.78	103	1.94	10	121
*Rep D00015552			1.01	2.45	847	2.32	10	3930

Final : VC172273 Order: Kinskuch17-01 / 119 samples

Report File No.: 0000026625

Element	@Au	@Ag	@Al	@Ba	@Ca	@Cr	@Cu
Method	GE_FAA313	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	5	0.01	0.01	5	0.01	1	0.5
Units	ppb	ppm	%	ppm	%	ppm	ppm
*Std OREAS503B		1.49	1.91	312	1.14	79	4990
*Std OREAS503B		1.46	1.89	307	1.11	77	5030
*Std OREAS601		46.9	0.79	371	0.99	43	947
*Blk BLANK		<0.01	<0.01	<5	<0.01	<1	<0.5
*Blk BLANK		<0.01	<0.01	<5	<0.01	<1	<0.5
*Rep D00014542	33						
*Rep D00015563	21						
*Std OREAS222	1220						
*Std AMIS0474	188						
*Std OXN117	7730						
*Blk BLANK	<5						

Element	@Fe	@K	@Li	@Mg	@Mn	@Na	@Ni	@P
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.01	1	0.01	2	0.01	0.5	0.01
Units	%	%	ppm	%	ppm	%	ppm	%
D00014531	4.50	0.23	19	1.73	1520	0.03	6.3	0.13
D00014532	6.46	0.40	14	1.12	695	<0.01	6.6	0.13
D00014533	4.53	0.37	4	1.13	828	<0.01	6.2	0.12
D00014534	5.81	0.31	6	0.52	1450	<0.01	5.6	0.14
D00014535	4.61	0.28	18	1.46	1890	0.02	6.4	0.12
D00014536	4.44	0.26	14	1.20	350	0.03	5.9	0.13
D00014538	7.10	0.08	30	2.73	1280	0.04	15.8	0.24
D00014539	5.23	0.13	25	1.80	1030	0.08	1.8	0.24
D00014540	7.22	0.32	27	1.77	1810	<0.01	4.8	0.13
D00014541	6.06	0.32	24	1.59	998	0.01	4.3	0.14
D00014542	4.20	0.44	12	0.99	1530	<0.01	3.2	0.13
D00014543	4.21	0.28	10	0.74	476	<0.01	3.1	0.11
D00014544	5.96	0.26	1	0.90	954	<0.01	5.1	0.12
D00014545	4.67	0.34	<1	0.08	134	<0.01	3.5	0.13
D00014546	5.67	0.26	22	1.35	1230	<0.01	4.9	0.14
D00014547	7.63	0.35	25	1.57	1990	<0.01	5.0	0.12
D00014548	4.34	0.43	15	0.99	769	<0.01	7.0	0.13
D00014549	5.44	0.38	18	1.37	711	0.02	6.7	0.13
D00014550	4.78	0.34	17	1.43	528	0.02	6.0	0.14
D00015501	3.96	0.33	13	1.39	1520	0.03	4.4	0.13
D00015502	8.93	0.32	20	1.14	1390	<0.01	4.8	0.13
D00015503	8.55	0.30	25	1.87	1740	<0.01	6.0	0.14
D00015504	6.12	0.40	20	1.41	964	<0.01	8.2	0.13
D00015505	5.47	0.37	19	1.13	1060	<0.01	6.1	0.13
D00015506	5.47	0.26	22	1.58	1350	<0.01	5.7	0.15
D00015507	3.69	0.36	<1	0.63	975	0.01	2.8	0.13
D00015508	3.83	0.28	3	0.82	1290	<0.01	4.5	0.13
D00015509	4.63	0.37	11	1.04	866	0.01	3.0	0.12
D00015510	3.67	0.28	4	0.19	451	<0.01	5.5	0.14
D00015511	3.99	0.33	9	0.76	1430	0.02	5.5	0.14
D00015512	6.21	0.27	23	1.55	402	<0.01	6.2	0.14
D00015513	5.37	0.41	26	1.67	496	<0.01	5.1	0.13
D00015514	5.31	0.42	18	1.17	742	<0.01	5.9	0.13
D00015515	5.19	0.39	12	0.67	942	<0.01	4.7	0.12
D00015516	3.94	0.33	14	1.02	723	0.01	5.3	0.12
D00015517	5.44	0.37	22	1.60	855	0.02	6.2	0.13
D00015518	5.67	0.29	19	1.54	1670	0.02	4.5	0.14
D00015519	5.64	0.40	26	1.92	2190	0.02	8.3	0.13
D00015520	4.92	0.25	17	1.46	1190	0.01	4.9	0.15
D00015521	6.82	0.25	29	1.34	919	<0.01	6.7	0.09

Element	@Fe	@K	@Li	@Mg	@Mn	@Na	@Ni	@P
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.01	1	0.01	2	0.01	0.5	0.01
Units	%	%	ppm	%	ppm	%	ppm	%
*Dup D00015521	6.44	0.21	29	1.29	814	<0.01	6.6	0.09
D00015522	6.78	0.33	18	1.45	1370	0.02	6.2	0.14
D00015523	5.12	0.38	18	1.39	1390	0.01	5.1	0.14
D00015524	6.61	0.35	22	1.30	1520	<0.01	7.7	0.12
D00015525	6.66	0.25	20	1.34	793	0.03	5.7	0.13
D00015526	4.07	0.25	22	1.19	1630	0.04	11.9	0.15
D00015527	4.83	0.25	18	1.47	1380	0.03	5.6	0.13
D00015528	8.71	0.43	25	1.40	974	<0.01	7.1	0.14
D00015529	6.53	0.40	14	1.34	1380	<0.01	5.8	0.13
D00015530	6.29	0.35	17	1.68	909	0.02	6.7	0.14
D00015531	7.12	0.19	18	1.71	1070	0.03	6.9	0.13
D00015532	8.13	0.25	1	1.80	4190	0.01	4.6	0.09
D00015533	6.24	0.32	14	1.23	2430	<0.01	4.3	0.15
D00015534	3.96	0.02	<1	0.02	62	<0.01	>10000	<0.01
D00015535	3.22	0.28	10	0.59	461	<0.01	14.2	0.10
D00015536	11.4	0.15	48	2.40	2400	<0.01	5.0	0.13
D00015551	6.91	0.36	22	1.47	1200	<0.01	5.3	0.13
D00015552	7.05	0.36	22	1.46	722	0.03	5.8	0.12
D00015553	4.65	0.27	8	0.87	1120	0.01	4.0	0.13
D00015554	6.20	0.44	13	1.06	684	<0.01	5.3	0.13
D00015555	5.60	0.27	16	1.50	1470	0.01	6.6	0.12
D00015556	4.32	0.36	1	1.06	1020	0.02	5.5	0.12
D00015557	4.39	0.43	11	1.29	2080	<0.01	5.6	0.12
D00015558	4.95	0.33	15	1.21	872	0.02	4.4	0.14
D00015559	5.05	0.40	10	0.48	1070	<0.01	4.0	0.12
D00015560	9.75	0.33	14	1.07	584	<0.01	4.0	0.13
D00015561	3.74	0.34	5	0.25	171	<0.01	5.2	0.14
D00015562	2.26	0.38	9	0.59	1070	<0.01	3.1	0.15
D00015563	3.81	0.25	5	1.37	1370	0.03	4.0	0.13
D00015564	5.10	0.35	16	1.46	1140	<0.01	5.9	0.12
D00015565	5.15	0.25	11	0.97	1030	<0.01	4.8	0.12
D00015566	7.29	0.29	10	0.90	1410	<0.01	4.5	0.10
D00015567	1.17	0.05	<1	0.13	196	<0.01	1.6	0.01
D00015568	5.61	0.33	14	1.39	1560	0.01	7.5	0.11
D00015569	5.24	0.31	19	1.24	935	0.02	3.0	0.12
D00015570	2.81	0.40	<1	0.24	850	0.01	3.9	0.11
D00015571	4.72	0.37	11	1.09	993	<0.01	6.9	0.14
*Rep D00014543	4.40	0.30	10	0.77	498	<0.01	3.1	0.12
*Rep D00015522	6.89	0.34	18	1.46	1380	0.02	6.0	0.14
*Rep D00015552	6.95	0.34	21	1.42	706	0.03	5.9	0.12

Final : VC172273 Order: Kinskuch17-01 / 119 samples

Report File No.: 0000026625

Element	@Fe	@K	@Li	@Mg	@Mn	@Na	@Ni	@P
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.01	1	0.01	2	0.01	0.5	0.01
Units	%	%	ppm	%	ppm	%	ppm	%
*Std OREAS503B	4.91	0.97	28	1.25	372	0.15	34.9	0.10
*Std OREAS503B	4.89	0.91	26	1.18	403	0.15	35.3	0.10
*Std OREAS601	2.06	0.24	7	0.19	444	0.06	23.9	0.04
*Blk BLANK	<0.01	<0.01	<1	<0.01	<2	<0.01	<0.5	<0.01
*Blk BLANK	<0.01	<0.01	<1	<0.01	<2	<0.01	<0.5	<0.01

Element	@S	@Sr	@Ti	@V	@Zn	@Zr	@As	@Be
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.5	0.01	1	1	0.5	1	0.1
Units	%	ppm	%	ppm	ppm	ppm	ppm	ppm
D00014531	0.85	133	<0.01	130	98	<0.5	19	0.4
D00014532	3.00	34.2	<0.01	67	122	<0.5	17	0.4
D00014533	2.82	115	<0.01	31	33	0.6	3	0.3
D00014534	4.90	48.8	<0.01	23	53	<0.5	20	0.3
D00014535	0.97	68.0	<0.01	96	110	0.9	16	0.3
D00014536	2.23	29.6	<0.01	80	24	<0.5	225	0.2
D00014538	0.76	62.9	0.09	201	99	3.8	12	0.8
D00014539	1.43	64.7	0.02	158	70	1.5	20	0.9
D00014540	1.65	36.6	<0.01	93	101	<0.5	19	0.2
D00014541	2.44	40.3	<0.01	76	84	<0.5	7	0.3
D00014542	0.57	105	<0.01	43	71	1.5	6	0.3
D00014543	1.24	20.5	<0.01	53	71	0.6	16	0.2
D00014544	>5.00	37.8	<0.01	25	56	<0.5	17	0.3
D00014545	3.49	16.9	<0.01	11	131	<0.5	32	0.2
D00014546	2.52	77.6	<0.01	71	74	0.7	6	0.4
D00014547	1.02	59.0	<0.01	99	145	<0.5	18	0.4
D00014548	0.23	81.2	<0.01	37	58	<0.5	4	0.4
D00014549	0.31	45.9	<0.01	87	66	<0.5	3	0.4
D00014550	0.57	191	<0.01	71	54	<0.5	2	0.3
D00015501	0.23	144	<0.01	87	93	0.9	2	0.3
D00015502	3.66	10.3	<0.01	74	89	0.6	105	0.2
D00015503	1.38	57.8	<0.01	119	113	<0.5	11	0.2
D00015504	1.74	19.1	<0.01	69	79	<0.5	7	0.4
D00015505	2.66	29.3	<0.01	72	55	<0.5	9	0.2
D00015506	2.33	37.1	<0.01	81	120	<0.5	15	0.2
D00015507	3.29	76.1	<0.01	15	33	<0.5	4	0.3
D00015508	2.84	41.8	<0.01	24	47	<0.5	8	0.3
D00015509	2.49	49.4	<0.01	46	97	<0.5	16	0.4
D00015510	3.27	27.5	<0.01	14	9	<0.5	6	0.3
D00015511	0.84	78.1	<0.01	30	59	<0.5	4	0.3
D00015512	2.40	7.4	<0.01	80	45	<0.5	50	0.3
D00015513	1.05	9.2	<0.01	79	46	<0.5	87	0.4
D00015514	0.95	58.2	<0.01	78	36	<0.5	7	0.3
D00015515	3.73	50.4	<0.01	27	69	<0.5	5	0.4
D00015516	1.22	129	<0.01	45	47	<0.5	5	0.3
D00015517	2.06	37.3	<0.01	81	48	<0.5	9	0.3
D00015518	3.06	103	<0.01	58	58	<0.5	6	0.3
D00015519	1.57	39.3	0.02	84	75	1.0	8	0.2
D00015520	2.93	52.1	<0.01	72	72	<0.5	8	0.4
D00015521	2.51	83.1	<0.01	54	63	<0.5	12	0.3

Element	@S	@Sr	@Ti	@V	@Zn	@Zr	@As	@Be
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.5	0.01	1	1	0.5	1	0.1
Units	%	ppm	%	ppm	ppm	ppm	ppm	ppm
*Dup D00015521	2.50	70.8	<0.01	50	62	<0.5	13	0.3
D00015522	3.95	37.3	<0.01	63	77	<0.5	7	0.3
D00015523	0.40	55.0	<0.01	71	90	0.6	4	0.3
D00015524	1.93	43.7	<0.01	95	77	<0.5	7	0.2
D00015525	3.68	68.8	<0.01	71	48	<0.5	30	0.2
D00015526	2.08	72.6	<0.01	96	110	0.5	42	0.4
D00015527	1.25	51.8	<0.01	91	61	<0.5	3	0.3
D00015528	>5.00	23.7	<0.01	73	57	1.7	6	0.3
D00015529	3.34	39.2	<0.01	52	46	0.9	1	0.3
D00015530	4.06	29.6	<0.01	90	48	<0.5	2	0.3
D00015531	3.96	72.8	<0.01	74	82	<0.5	3	0.3
D00015532	>5.00	86.6	<0.01	14	18	<0.5	32	0.2
D00015533	1.31	23.4	<0.01	56	93	0.8	10	0.4
D00015534	>5.00	50.8	<0.01	2	>10000	<0.5	>10000	<0.1
D00015535	1.08	47.7	<0.01	33	73	<0.5	58	0.4
D00015536	0.92	15.5	<0.01	149	2120	<0.5	65	0.4
D00015551	1.21	154	<0.01	85	94	<0.5	8	0.3
D00015552	0.47	133	<0.01	99	55	<0.5	5	0.2
D00015553	3.61	379	<0.01	47	24	<0.5	2	0.2
D00015554	4.68	46.7	<0.01	45	21	<0.5	5	0.2
D00015555	2.17	69.3	<0.01	81	56	<0.5	61	0.3
D00015556	1.64	62.4	<0.01	47	35	<0.5	5	0.4
D00015557	0.69	49.7	<0.01	46	35	<0.5	4	0.3
D00015558	2.90	31.9	<0.01	70	38	0.6	1	0.4
D00015559	2.52	55.1	<0.01	19	26	1.3	14	0.3
D00015560	>5.00	4.1	<0.01	77	66	0.8	88	0.1
D00015561	2.36	6.8	<0.01	22	39	<0.5	30	0.3
D00015562	0.61	185	<0.01	36	37	<0.5	3	0.4
D00015563	0.52	157	<0.01	45	80	0.9	3	0.3
D00015564	2.35	52.1	<0.01	76	33	0.5	5	0.3
D00015565	3.66	42.0	<0.01	50	27	<0.5	6	0.3
D00015566	>5.00	68.5	<0.01	45	32	<0.5	13	0.2
D00015567	0.87	135	<0.01	3	1410	<0.5	54	<0.1
D00015568	1.90	35.1	<0.01	71	81	<0.5	3	0.3
D00015569	1.24	31.9	<0.01	73	37	<0.5	15	0.2
D00015570	1.85	61.0	<0.01	14	22	<0.5	17	0.3
D00015571	3.62	29.5	<0.01	39	63	<0.5	9	0.3
*Rep D00014543	1.30	21.2	<0.01	58	71	0.6	17	0.2
*Rep D00015522	4.06	38.0	<0.01	63	76	<0.5	7	0.2
*Rep D00015552	0.46	131	<0.01	100	56	<0.5	6	0.2

Element	@S	@Sr	@Ti	@V	@Zn	@Zr	@As	@Be
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.5	0.01	1	1	0.5	1	0.1
Units	%	ppm	%	ppm	ppm	ppm	ppm	ppm
*Std OREAS503B	0.69	75.2	0.31	113	80	10.4	20	0.4
*Std OREAS503B	0.65	76.4	0.31	112	72	10.6	15	0.4
*Std OREAS601	0.95	35.4	0.01	9	1280	24.4	320	0.7
*Blk BLANK	<0.01	<0.5	<0.01	<1	<1	<0.5	<1	<0.1
*Blk BLANK	<0.01	<0.5	<0.01	<1	<1	<0.5	<1	<0.1

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga	@Ge	@Hf
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.02	0.01	0.05	0.1	0.05	0.1	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00014531	0.11	0.45	10.5	21.9	2.11	4.5	<0.1	<0.05
D00014532	0.29	0.39	13.0	51.4	1.15	5.3	<0.1	<0.05
D00014533	0.25	0.07	7.96	11.4	1.19	1.9	<0.1	<0.05
D00014534	0.51	0.17	9.58	21.6	1.67	2.0	<0.1	<0.05
D00014535	0.04	0.05	13.0	17.3	1.48	5.6	<0.1	<0.05
D00014536	0.42	0.03	16.9	32.6	2.13	4.8	<0.1	<0.05
D00014538	0.12	0.11	28.4	28.2	1.92	13.4	0.2	0.17
D00014539	0.28	0.34	22.6	17.6	1.09	9.3	<0.1	0.06
D00014540	0.18	0.04	15.3	23.4	1.33	7.6	<0.1	<0.05
D00014541	0.23	0.05	11.5	37.6	1.83	6.3	<0.1	<0.05
D00014542	0.05	0.03	17.1	12.9	2.27	3.5	<0.1	<0.05
D00014543	0.28	0.09	5.04	14.7	1.46	3.5	<0.1	<0.05
D00014544	0.33	0.16	10.8	9.2	1.52	1.0	<0.1	<0.05
D00014545	0.24	1.09	8.10	11.2	1.17	0.9	<0.1	<0.05
D00014546	0.08	0.04	12.2	38.5	2.31	4.5	<0.1	<0.05
D00014547	0.37	0.08	10.9	12.8	1.46	9.1	<0.1	<0.05
D00014548	0.02	0.06	17.4	10.3	1.94	4.1	<0.1	<0.05
D00014549	0.06	0.04	13.3	9.7	1.18	6.6	<0.1	<0.05
D00014550	0.07	0.03	31.0	15.4	1.33	6.4	<0.1	<0.05
D00015501	0.04	0.03	11.2	16.9	0.85	5.3	<0.1	<0.05
D00015502	0.69	0.07	11.2	7.3	0.97	5.8	<0.1	<0.05
D00015503	0.25	0.11	17.2	10.5	1.10	8.5	<0.1	<0.05
D00015504	0.17	0.06	9.49	6.0	2.04	6.4	<0.1	<0.05
D00015505	0.24	0.03	9.16	29.4	1.92	4.9	<0.1	<0.05
D00015506	0.43	0.28	8.72	3.7	1.73	7.0	<0.1	<0.05
D00015507	0.06	0.07	9.69	6.3	2.06	1.0	<0.1	<0.05
D00015508	0.16	0.08	11.9	16.0	1.99	1.0	<0.1	<0.05
D00015509	0.11	0.06	11.6	12.5	1.97	3.4	<0.1	<0.05
D00015510	0.27	0.04	7.14	19.7	2.69	1.2	<0.1	<0.05
D00015511	0.13	0.06	35.7	15.6	2.44	2.4	<0.1	<0.05
D00015512	0.55	<0.01	12.2	16.2	1.68	5.8	<0.1	<0.05
D00015513	0.24	0.01	16.2	8.2	2.86	6.0	<0.1	<0.05
D00015514	0.06	0.03	18.8	17.6	1.83	4.5	<0.1	<0.05
D00015515	0.16	0.12	10.9	17.8	2.30	2.8	<0.1	<0.05
D00015516	0.25	0.06	29.3	9.2	1.76	3.9	<0.1	<0.05
D00015517	0.70	0.03	12.7	20.0	2.62	6.0	<0.1	<0.05
D00015518	0.57	0.05	23.6	5.9	2.12	5.5	<0.1	<0.05
D00015519	0.19	0.04	11.9	19.6	2.30	6.4	<0.1	0.06
D00015520	0.22	0.08	10.1	15.0	2.09	4.9	<0.1	<0.05
D00015521	0.16	0.04	10.1	19.2	1.78	5.2	<0.1	<0.05

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga	@Ge	@Hf
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.02	0.01	0.05	0.1	0.05	0.1	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Dup D00015521	0.16	0.05	9.85	20.9	1.79	5.2	<0.1	<0.05
D00015522	0.37	0.03	12.0	8.1	1.17	4.9	<0.1	<0.05
D00015523	0.07	0.05	17.1	17.7	1.48	5.7	<0.1	<0.05
D00015524	0.17	0.03	9.43	64.6	1.26	5.4	<0.1	<0.05
D00015525	0.53	0.03	9.27	18.2	1.13	5.9	<0.1	<0.05
D00015526	0.23	0.22	25.8	18.0	2.56	4.7	<0.1	<0.05
D00015527	0.45	0.04	23.0	8.2	2.07	6.2	<0.1	<0.05
D00015528	0.93	0.03	10.1	22.8	2.87	5.6	<0.1	<0.05
D00015529	0.37	0.04	11.0	13.2	1.97	3.6	<0.1	<0.05
D00015530	0.22	0.02	9.30	17.5	1.54	6.3	<0.1	<0.05
D00015531	0.27	0.04	12.5	12.9	1.56	7.2	<0.1	<0.05
D00015532	0.47	0.07	7.03	13.6	1.24	1.0	<0.1	<0.05
D00015533	0.25	0.03	11.9	5.8	1.24	4.2	<0.1	<0.05
D00015534	<0.02	238	0.15	2130	0.10	3.0	0.6	<0.05
D00015535	0.31	0.31	9.65	8.9	1.39	2.4	<0.1	<0.05
D00015536	0.86	20.0	6.47	7.1	0.92	12.1	0.2	<0.05
D00015551	0.09	0.05	9.19	15.2	1.65	6.9	<0.1	<0.05
D00015552	0.06	0.06	18.5	10.5	0.98	8.0	0.1	<0.05
D00015553	0.07	0.05	12.4	27.1	1.76	2.6	<0.1	<0.05
D00015554	0.18	0.03	8.29	20.2	1.75	3.7	<0.1	<0.05
D00015555	0.29	0.03	9.37	17.0	2.01	5.9	<0.1	<0.05
D00015556	0.18	0.02	13.5	13.1	3.83	1.1	<0.1	<0.05
D00015557	0.09	0.02	14.2	11.2	3.62	2.7	<0.1	<0.05
D00015558	0.23	0.04	12.9	11.0	2.70	5.1	<0.1	<0.05
D00015559	0.29	0.05	17.2	13.7	2.48	2.3	<0.1	<0.05
D00015560	0.94	0.01	6.66	4.8	1.83	6.2	0.1	<0.05
D00015561	0.20	0.06	7.57	11.6	2.61	1.8	<0.1	<0.05
D00015562	0.14	0.14	24.3	7.4	2.01	3.0	<0.1	<0.05
D00015563	0.17	<0.01	24.3	11.7	2.66	2.6	<0.1	<0.05
D00015564	0.49	0.02	8.61	16.9	2.07	5.5	<0.1	<0.05
D00015565	0.20	0.07	8.26	15.2	1.09	4.0	<0.1	<0.05
D00015566	0.24	0.06	9.18	15.9	1.51	3.6	0.1	<0.05
D00015567	0.14	10.3	0.95	2.5	0.25	0.2	<0.1	<0.05
D00015568	0.12	0.07	12.8	58.4	0.98	5.4	<0.1	<0.05
D00015569	0.34	0.05	14.8	11.5	1.71	6.3	<0.1	<0.05
D00015570	0.23	0.15	9.31	4.4	1.60	1.2	<0.1	<0.05
D00015571	0.32	0.11	12.7	23.9	1.68	2.9	0.1	<0.05
*Rep D00014543	0.28	0.08	4.98	14.3	1.44	3.5	<0.1	<0.05
*Rep D00015522	0.37	0.03	12.0	8.0	1.15	4.9	<0.1	<0.05
*Rep D00015552	0.05	0.07	18.4	10.7	0.97	8.0	0.1	<0.05

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga	@Ge	@Hf
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.02	0.01	0.05	0.1	0.05	0.1	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Std OREAS503B	2.73	0.32	50.8	15.8	8.52	8.7	0.2	0.46
*Std OREAS503B	2.65	0.23	51.5	14.7	8.43	8.7	0.3	0.45
*Std OREAS601	21.1	7.93	43.8	4.7	1.85	4.4	0.1	0.60
*Blk BLANK	<0.02	<0.01	<0.05	<0.1	<0.05	<0.1	<0.1	<0.05
*Blk BLANK	<0.02	<0.01	<0.05	<0.1	<0.05	<0.1	<0.1	<0.05

Element	@Hg	@In	@La	@Lu	@Mo	@Nb	@Pb	@Rb
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.02	0.1	0.01	0.05	0.05	0.2	0.2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00014531	0.02	0.05	4.4	0.19	1.03	<0.05	15.5	6.8
D00014532	0.05	0.08	7.3	0.12	6.86	<0.05	8.2	13.9
D00014533	0.18	<0.02	4.0	0.15	0.39	<0.05	3.3	11.8
D00014534	0.09	0.10	5.5	0.14	2.48	<0.05	18.7	9.7
D00014535	0.02	0.02	6.6	0.14	0.21	<0.05	3.9	10.3
D00014536	0.04	0.03	9.0	0.07	20.5	<0.05	8.4	10.2
D00014538	0.03	0.05	14.0	0.12	1.19	0.22	9.3	2.5
D00014539	0.10	0.05	10.3	0.10	278	0.11	39.6	4.4
D00014540	0.04	0.04	8.5	0.09	3.86	<0.05	6.1	13.5
D00014541	0.05	0.03	7.7	0.07	25.5	<0.05	3.9	13.0
D00014542	0.02	0.05	10.0	0.13	7.43	<0.05	1.9	15.8
D00014543	0.08	0.03	3.2	0.05	11.9	<0.05	8.8	12.5
D00014544	0.10	<0.02	5.0	0.11	3.00	<0.05	11.6	8.8
D00014545	0.57	0.02	3.5	0.06	7.28	<0.05	31.0	11.1
D00014546	0.02	<0.02	6.5	0.14	3.18	<0.05	3.5	8.7
D00014547	0.17	0.08	4.4	0.15	2.11	<0.05	18.1	11.6
D00014548	0.03	<0.02	8.6	0.13	3.31	<0.05	1.6	16.1
D00014549	0.06	0.03	6.1	0.13	2.29	<0.05	1.8	14.2
D00014550	0.03	0.03	15.8	0.12	3.04	<0.05	1.3	13.1
D00015501	<0.01	0.02	5.6	0.15	4.68	<0.05	3.9	12.1
D00015502	0.07	0.05	6.0	0.08	1.72	<0.05	16.8	12.4
D00015503	0.02	0.13	9.9	0.18	3.00	<0.05	3.9	11.0
D00015504	0.09	0.11	4.6	0.09	1.28	<0.05	3.0	16.4
D00015505	0.02	0.06	5.1	0.11	7.29	<0.05	2.3	15.5
D00015506	0.03	0.03	4.5	0.11	0.61	<0.05	8.3	9.9
D00015507	0.12	<0.02	4.2	0.07	1.18	<0.05	5.0	11.0
D00015508	0.06	0.03	5.6	0.13	34.1	<0.05	8.2	10.1
D00015509	0.01	<0.02	5.9	0.14	4.79	<0.05	5.6	10.7
D00015510	0.12	<0.02	3.2	0.11	8.57	<0.05	3.1	9.0
D00015511	0.02	0.06	19.2	0.16	3.43	<0.05	1.8	10.6
D00015512	<0.01	<0.02	7.0	0.08	0.76	<0.05	3.4	9.9
D00015513	0.26	0.06	8.5	0.06	0.37	<0.05	5.9	14.1
D00015514	0.01	0.02	9.2	0.15	0.71	<0.05	1.5	14.1
D00015515	0.06	<0.02	5.6	0.10	1.63	<0.05	13.9	12.6
D00015516	<0.01	<0.02	16.4	0.12	3.19	<0.05	2.0	11.4
D00015517	0.26	0.03	6.8	0.09	1.13	<0.05	2.4	14.6
D00015518	0.79	0.07	11.1	0.15	5.04	<0.05	4.2	11.8
D00015519	0.08	0.04	6.5	0.12	0.47	0.07	2.5	16.4
D00015520	0.20	0.02	5.3	0.12	1.25	<0.05	8.5	9.2
D00015521	0.43	0.16	4.1	0.12	4.18	<0.05	3.9	7.4

Element	@Hg	@In	@La	@Lu	@Mo	@Nb	@Pb	@Rb
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.02	0.1	0.01	0.05	0.05	0.2	0.2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Dup D00015521	0.37	0.15	3.9	0.12	3.74	<0.05	3.8	6.6
D00015522	0.08	0.03	6.9	0.13	1.19	<0.05	3.2	13.1
D00015523	0.05	0.05	8.4	0.11	8.60	<0.05	2.1	13.7
D00015524	0.01	0.12	5.1	0.10	7.63	<0.05	3.1	12.7
D00015525	0.18	0.11	4.3	0.12	3.41	<0.05	4.4	8.6
D00015526	0.13	0.05	14.2	0.18	5.55	<0.05	4.7	7.6
D00015527	0.11	0.24	11.5	0.16	29.3	<0.05	2.1	11.2
D00015528	0.26	0.05	5.1	0.11	1.20	<0.05	2.8	13.7
D00015529	0.14	0.05	5.7	0.13	0.56	<0.05	3.0	13.1
D00015530	0.02	<0.02	4.2	0.08	0.98	<0.05	2.5	9.7
D00015531	0.10	0.03	5.9	0.10	0.72	<0.05	3.7	5.8
D00015532	0.21	0.02	3.1	0.15	3.15	<0.05	11.5	8.2
D00015533	<0.01	0.10	7.8	0.17	1.31	<0.05	3.3	13.2
D00015534	476	0.97	6.7	<0.01	15.0	<0.05	0.6	0.6
D00015535	0.33	0.10	4.5	0.10	1.91	<0.05	6.3	8.8
D00015536	5.75	0.60	3.2	0.06	2.87	<0.05	278	5.7
D00015551	0.11	0.06	4.4	0.12	1.71	<0.05	3.2	13.2
D00015552	0.20	0.05	9.6	0.11	2.34	<0.05	3.2	11.2
D00015553	0.11	<0.02	5.3	0.16	15.0	<0.05	4.2	8.2
D00015554	0.08	<0.02	4.1	0.08	16.2	<0.05	3.2	12.0
D00015555	0.08	0.03	5.6	0.11	0.91	<0.05	2.9	9.5
D00015556	0.15	0.05	7.5	0.09	0.59	<0.05	2.3	13.3
D00015557	0.06	0.07	8.0	0.12	0.49	<0.05	2.2	19.3
D00015558	0.07	<0.02	7.7	0.12	0.25	<0.05	1.8	11.1
D00015559	0.35	0.04	10.0	0.11	0.48	<0.05	3.1	14.5
D00015560	0.23	0.05	2.7	0.07	0.95	<0.05	18.1	14.2
D00015561	0.15	0.09	5.4	0.09	14.7	<0.05	4.6	12.4
D00015562	0.07	0.08	11.6	0.20	100	<0.05	2.1	13.4
D00015563	0.09	0.05	15.1	0.13	0.46	<0.05	2.3	8.7
D00015564	0.86	0.04	5.0	0.10	2.15	<0.05	2.2	13.1
D00015565	0.13	0.03	4.1	0.11	2.38	<0.05	2.9	7.7
D00015566	0.18	0.03	4.6	0.13	39.8	<0.05	9.4	9.0
D00015567	3.33	0.44	0.3	0.02	1.95	<0.05	257	1.9
D00015568	0.05	0.08	8.5	0.10	11.0	<0.05	2.7	13.1
D00015569	0.05	0.04	6.5	0.13	2.57	<0.05	3.4	13.6
D00015570	1.20	0.19	4.4	0.10	6.33	<0.05	6.8	10.7
D00015571	0.12	0.03	6.3	0.11	11.8	<0.05	16.3	11.6
*Rep D00014543	0.07	0.03	3.2	0.05	11.8	<0.05	8.9	12.3
*Rep D00015522	0.11	0.03	7.0	0.13	1.16	<0.05	3.2	13.1
*Rep D00015552	0.21	0.06	9.5	0.11	2.53	<0.05	3.0	11.4

Element	@Hg	@In	@La	@Lu	@Mo	@Nb	@Pb	@Rb
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.01	0.02	0.1	0.01	0.05	0.05	0.2	0.2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Std OREAS503B	0.02	0.39	26.6	0.22	308	1.12	13.2	99.0
*Std OREAS503B	0.04	0.35	25.8	0.21	309	1.35	12.8	110
*Std OREAS601	0.30	1.68	22.2	0.05	4.15	0.50	275	14.7
*Blk BLANK	<0.01	<0.02	<0.1	<0.01	<0.05	<0.05	<0.2	<0.2
*Blk BLANK	<0.01	<0.02	<0.1	<0.01	<0.05	<0.05	0.2	<0.2

Element	@Sb	@Sc	@Se	@Sn	@Ta	@Tb	@Te	@Th
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.05	0.1	1	0.3	0.05	0.02	0.05	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00014531	1.19	16.4	1	<0.3	<0.05	0.27	0.06	0.5
D00014532	1.08	5.8	4	<0.3	<0.05	0.29	0.37	0.9
D00014533	3.57	7.9	3	<0.3	<0.05	0.22	0.55	0.8
D00014534	0.59	3.8	3	<0.3	<0.05	0.28	1.67	1.0
D00014535	1.70	11.7	<1	<0.3	<0.05	0.24	0.81	0.5
D00014536	1.33	5.4	9	<0.3	<0.05	0.22	0.18	0.7
D00014538	0.67	17.9	2	0.6	<0.05	0.48	0.28	1.4
D00014539	4.68	9.2	1	<0.3	<0.05	0.37	0.33	1.0
D00014540	0.40	9.5	2	<0.3	<0.05	0.18	0.11	1.1
D00014541	0.27	7.3	4	<0.3	<0.05	0.19	0.24	1.0
D00014542	0.33	6.4	1	<0.3	<0.05	0.24	0.05	1.0
D00014543	1.74	5.6	4	<0.3	<0.05	0.10	0.27	0.8
D00014544	0.37	4.9	5	<0.3	<0.05	0.25	0.72	0.8
D00014545	6.02	2.8	6	<0.3	<0.05	0.20	0.80	0.9
D00014546	0.33	7.4	6	<0.3	<0.05	0.24	0.08	1.1
D00014547	0.44	7.4	3	<0.3	<0.05	0.25	0.79	1.0
D00014548	0.37	4.0	<1	<0.3	<0.05	0.28	0.08	1.3
D00014549	0.33	6.6	2	<0.3	<0.05	0.27	<0.05	1.4
D00014550	0.34	5.6	1	<0.3	<0.05	0.31	<0.05	1.1
D00015501	0.31	6.6	<1	<0.3	<0.05	0.26	<0.05	1.0
D00015502	1.37	5.7	1	<0.3	<0.05	0.16	0.70	1.2
D00015503	0.32	12.0	1	<0.3	<0.05	0.25	0.09	1.6
D00015504	0.55	5.5	5	<0.3	<0.05	0.20	0.26	1.1
D00015505	0.29	5.2	3	<0.3	<0.05	0.22	0.63	1.2
D00015506	0.23	5.7	<1	<0.3	<0.05	0.19	0.72	1.2
D00015507	0.67	3.1	9	<0.3	<0.05	0.26	0.13	1.2
D00015508	0.36	4.9	4	<0.3	<0.05	0.30	0.41	1.0
D00015509	0.82	5.5	4	<0.3	<0.05	0.26	0.07	1.0
D00015510	0.30	4.3	9	<0.3	<0.05	0.21	0.28	0.9
D00015511	0.54	7.9	1	<0.3	<0.05	0.30	0.17	1.0
D00015512	0.21	7.9	4	<0.3	<0.05	0.20	0.43	1.1
D00015513	0.57	6.5	<1	<0.3	<0.05	0.18	0.11	1.1
D00015514	0.63	8.3	1	<0.3	<0.05	0.30	0.05	1.3
D00015515	0.35	3.8	4	<0.3	<0.05	0.27	0.14	1.0
D00015516	0.35	5.2	<1	<0.3	<0.05	0.26	0.16	0.9
D00015517	0.32	6.5	<1	<0.3	<0.05	0.19	1.06	1.1
D00015518	0.31	7.0	<1	<0.3	<0.05	0.29	1.10	1.3
D00015519	0.41	6.5	<1	<0.3	<0.05	0.21	0.56	0.8
D00015520	0.60	6.2	3	<0.3	<0.05	0.23	0.58	1.1
D00015521	0.69	8.0	7	<0.3	<0.05	0.26	0.70	0.7

Element	@Sb	@Sc	@Se	@Sn	@Ta	@Tb	@Te	@Th
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.05	0.1	1	0.3	0.05	0.02	0.05	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Dup D00015521	0.64	7.6	7	<0.3	<0.05	0.26	0.76	0.7
D00015522	0.43	6.7	2	<0.3	<0.05	0.22	1.11	1.2
D00015523	0.41	6.3	2	<0.3	<0.05	0.24	0.12	1.5
D00015524	0.87	6.5	9	<0.3	<0.05	0.20	0.27	1.1
D00015525	0.48	4.7	4	<0.3	<0.05	0.20	1.46	1.4
D00015526	0.99	11.0	2	0.3	<0.05	0.36	0.94	0.8
D00015527	0.46	8.8	4	0.4	<0.05	0.26	0.17	1.4
D00015528	0.33	6.1	1	<0.3	<0.05	0.24	0.78	0.8
D00015529	0.52	6.9	<1	<0.3	<0.05	0.28	0.45	0.7
D00015530	0.28	7.7	3	<0.3	<0.05	0.20	0.06	0.8
D00015531	0.22	5.0	4	<0.3	<0.05	0.24	0.43	0.9
D00015532	0.60	4.0	5	<0.3	<0.05	0.35	0.36	0.4
D00015533	0.67	10.0	<1	<0.3	<0.05	0.22	0.31	1.0
D00015534	>10000	<0.1	8	1.2	<0.05	<0.02	<0.05	<0.1
D00015535	83.6	3.9	2	<0.3	<0.05	0.16	0.08	1.4
D00015536	9.93	17.3	2	0.5	<0.05	0.12	0.31	1.6
D00015551	0.65	6.8	3	<0.3	<0.05	0.25	0.17	0.9
D00015552	6.13	7.1	<1	<0.3	<0.05	0.28	0.07	1.4
D00015553	0.96	5.8	2	<0.3	<0.05	0.36	0.10	1.0
D00015554	2.88	5.2	4	<0.3	<0.05	0.26	0.14	1.0
D00015555	1.28	8.2	<1	<0.3	<0.05	0.23	0.86	0.8
D00015556	1.40	9.3	<1	<0.3	<0.05	0.20	0.50	0.7
D00015557	1.03	10.6	<1	<0.3	<0.05	0.24	0.22	0.9
D00015558	0.68	7.0	<1	<0.3	<0.05	0.29	0.12	1.0
D00015559	0.76	3.7	<1	<0.3	<0.05	0.32	0.78	1.1
D00015560	0.73	7.1	1	0.4	<0.05	0.18	1.40	0.8
D00015561	4.44	3.4	9	<0.3	<0.05	0.26	0.45	1.1
D00015562	5.50	4.1	<1	<0.3	<0.05	0.44	0.12	1.8
D00015563	1.92	12.1	<1	<0.3	<0.05	0.28	0.71	0.8
D00015564	0.57	5.4	<1	<0.3	<0.05	0.24	1.08	0.6
D00015565	0.44	4.8	3	<0.3	<0.05	0.22	0.77	0.7
D00015566	0.52	5.8	9	<0.3	<0.05	0.24	1.18	0.6
D00015567	4.11	1.1	9	<0.3	<0.05	0.05	0.16	<0.1
D00015568	0.67	8.1	5	<0.3	<0.05	0.19	0.20	0.8
D00015569	0.54	6.8	<1	<0.3	<0.05	0.23	0.45	1.4
D00015570	4.37	3.8	14	<0.3	<0.05	0.30	0.13	1.3
D00015571	1.21	5.5	6	<0.3	<0.05	0.27	0.43	1.0
*Rep D00014543	1.71	5.5	4	<0.3	<0.05	0.10	0.28	0.8
*Rep D00015522	0.42	6.6	1	<0.3	<0.05	0.21	1.05	1.2
*Rep D00015552	6.90	7.1	<1	<0.3	<0.05	0.29	0.07	1.4

Element	@Sb	@Sc	@Se	@Sn	@Ta	@Tb	@Te	@Th
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B
Det.Lim.	0.05	0.1	1	0.3	0.05	0.02	0.05	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Std OREAS503B	0.44	7.2	5	6.9	<0.05	0.54	0.15	16.7
*Std OREAS503B	0.48	7.5	5	6.4	<0.05	0.56	0.19	16.1
*Std OREAS601	20.9	2.0	11	2.4	<0.05	0.35	16.1	6.5
*Blk BLANK	<0.05	<0.1	<1	<0.3	<0.05	<0.02	<0.05	<0.1
*Blk BLANK	<0.05	<0.1	<1	<0.3	<0.05	<0.02	<0.05	<0.1

Element	@Tl	@U	@W	@Y	@Yb	Ag	As	Cu
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GO_FAG313	GO_ICP13B	GO_ICP13B
Det.Lim.	0.02	0.05	0.1	0.05	0.1	10	0.01	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%
D00014531	0.05	0.06	0.1	9.39	1.1	N.A.	N.A.	N.A.
D00014532	0.16	0.15	0.2	9.71	0.8	N.A.	N.A.	N.A.
D00014533	0.13	0.14	0.2	8.03	0.9	N.A.	N.A.	N.A.
D00014534	0.11	0.13	0.2	11.0	0.9	N.A.	N.A.	N.A.
D00014535	0.11	0.22	<0.1	8.08	0.8	N.A.	N.A.	N.A.
D00014536	0.10	0.13	0.2	6.33	0.4	N.A.	N.A.	N.A.
D00014538	0.06	0.32	0.4	12.1	0.9	N.A.	N.A.	N.A.
D00014539	0.62	0.22	0.1	8.54	0.7	N.A.	N.A.	N.A.
D00014540	0.15	0.21	0.1	5.55	0.5	N.A.	N.A.	N.A.
D00014541	0.15	0.11	0.1	5.82	0.5	N.A.	N.A.	N.A.
D00014542	0.17	0.29	0.1	7.40	0.8	N.A.	N.A.	N.A.
D00014543	0.15	0.16	0.2	3.53	0.3	N.A.	N.A.	N.A.
D00014544	0.11	0.07	0.2	7.00	0.7	N.A.	N.A.	N.A.
D00014545	0.13	0.11	0.2	4.62	0.4	N.A.	N.A.	N.A.
D00014546	0.10	0.22	0.3	8.39	0.8	N.A.	N.A.	N.A.
D00014547	0.13	<0.05	0.1	8.08	0.9	N.A.	N.A.	N.A.
D00014548	0.15	0.18	0.1	8.22	0.7	N.A.	N.A.	N.A.
D00014549	0.13	0.13	0.1	8.39	0.8	N.A.	N.A.	N.A.
D00014550	0.11	0.10	0.2	8.51	0.7	N.A.	N.A.	N.A.
D00015501	0.13	0.25	<0.1	8.19	0.8	N.A.	N.A.	N.A.
D00015502	0.14	0.25	0.2	5.26	0.5	N.A.	N.A.	N.A.
D00015503	0.10	0.42	0.2	7.97	1.0	N.A.	N.A.	N.A.
D00015504	0.18	0.14	0.4	6.06	0.6	N.A.	N.A.	N.A.
D00015505	0.17	0.23	0.2	7.70	0.7	N.A.	N.A.	N.A.
D00015506	0.11	0.20	0.3	6.87	0.6	N.A.	N.A.	N.A.
D00015507	0.13	0.17	0.2	7.61	0.5	N.A.	N.A.	N.A.
D00015508	0.12	0.09	0.4	8.57	0.9	N.A.	N.A.	N.A.
D00015509	0.11	0.15	0.4	8.66	0.9	N.A.	N.A.	N.A.
D00015510	0.10	0.18	0.2	6.56	0.7	N.A.	N.A.	N.A.
D00015511	0.09	0.09	0.1	8.76	1.0	N.A.	N.A.	N.A.
D00015512	0.09	0.15	0.1	6.01	0.5	N.A.	N.A.	N.A.
D00015513	0.19	0.17	0.2	4.32	0.4	N.A.	N.A.	N.A.
D00015514	0.12	0.19	<0.1	10.2	1.0	N.A.	N.A.	N.A.
D00015515	0.13	0.15	0.1	8.23	0.7	N.A.	N.A.	N.A.
D00015516	0.09	0.14	0.1	7.85	0.8	N.A.	N.A.	N.A.
D00015517	0.15	0.19	0.2	5.76	0.6	N.A.	N.A.	N.A.
D00015518	0.13	0.38	0.1	9.35	0.9	N.A.	N.A.	N.A.
D00015519	0.18	0.18	0.1	6.92	0.7	N.A.	N.A.	N.A.
D00015520	0.12	0.16	<0.1	7.44	0.7	N.A.	N.A.	N.A.
D00015521	0.08	0.17	0.1	8.53	0.8	N.A.	N.A.	N.A.

Element	@Tl	@U	@W	@Y	@Yb	Ag	As	Cu
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GO_FAG313	GO_ICP13B	GO_ICP13B
Det.Lim.	0.02	0.05	0.1	0.05	0.1	10	0.01	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%
*Dup D00015521	0.07	0.16	0.1	8.27	0.8	N.A.	N.A.	N.A.
D00015522	0.14	0.13	0.1	7.74	0.8	N.A.	N.A.	N.A.
D00015523	0.16	0.21	0.1	6.74	0.7	N.A.	N.A.	N.A.
D00015524	0.15	0.12	0.1	6.72	0.6	N.A.	N.A.	N.A.
D00015525	0.09	0.13	0.1	6.51	0.7	N.A.	N.A.	N.A.
D00015526	0.08	0.34	0.2	10.3	1.1	N.A.	N.A.	N.A.
D00015527	0.11	0.76	0.2	7.77	1.0	N.A.	N.A.	N.A.
D00015528	0.15	0.26	0.2	7.65	0.8	N.A.	N.A.	N.A.
D00015529	0.14	0.13	0.2	9.03	0.9	N.A.	N.A.	N.A.
D00015530	0.12	0.12	<0.1	5.86	0.5	N.A.	N.A.	N.A.
D00015531	0.07	0.10	0.1	7.37	0.7	N.A.	N.A.	N.A.
D00015532	0.14	0.07	0.2	11.6	1.0	N.A.	N.A.	N.A.
D00015533	0.16	0.60	0.1	7.90	1.0	N.A.	N.A.	N.A.
D00015534	0.05	<0.05	<0.1	0.22	<0.1	7688	2.90	24.2
D00015535	0.07	0.46	<0.1	4.45	0.6	N.A.	N.A.	N.A.
D00015536	0.05	0.76	<0.1	3.55	0.4	N.A.	N.A.	N.A.
D00015551	0.12	0.18	<0.1	7.16	0.8	N.A.	N.A.	N.A.
D00015552	0.11	0.10	<0.1	6.89	0.7	N.A.	N.A.	N.A.
D00015553	0.08	0.17	<0.1	12.1	1.1	N.A.	N.A.	N.A.
D00015554	0.11	0.15	0.1	7.09	0.6	N.A.	N.A.	N.A.
D00015555	0.09	0.11	<0.1	6.82	0.7	N.A.	N.A.	N.A.
D00015556	0.13	0.12	0.2	6.03	0.6	N.A.	N.A.	N.A.
D00015557	0.21	0.15	0.1	7.19	0.8	N.A.	N.A.	N.A.
D00015558	0.12	0.20	<0.1	9.23	0.8	N.A.	N.A.	N.A.
D00015559	0.15	0.22	0.1	8.98	0.8	N.A.	N.A.	N.A.
D00015560	0.13	0.65	0.3	4.54	0.5	N.A.	N.A.	N.A.
D00015561	0.15	0.13	<0.1	7.88	0.6	N.A.	N.A.	N.A.
D00015562	0.13	0.34	0.1	12.8	1.3	N.A.	N.A.	N.A.
D00015563	0.08	0.24	<0.1	7.39	0.8	N.A.	N.A.	N.A.
D00015564	0.12	0.16	<0.1	7.31	0.7	N.A.	N.A.	N.A.
D00015565	0.09	0.15	<0.1	6.62	0.7	N.A.	N.A.	N.A.
D00015566	0.11	0.14	<0.1	7.71	0.8	N.A.	N.A.	N.A.
D00015567	<0.02	<0.05	<0.1	1.39	0.1	N.A.	N.A.	N.A.
D00015568	0.17	0.15	<0.1	5.39	0.6	N.A.	N.A.	N.A.
D00015569	0.11	0.47	0.2	6.74	0.8	N.A.	N.A.	N.A.
D00015570	0.14	0.13	0.1	6.77	0.6	N.A.	N.A.	1.55
D00015571	0.15	0.10	<0.1	6.15	0.7	N.A.	N.A.	N.A.
*Rep D00014543	0.15	0.17	0.2	3.48	0.3			
*Rep D00015522	0.14	0.13	<0.1	7.71	0.7			
*Rep D00015552	0.11	0.10	<0.1	7.01	0.7			

Element	@Tl	@U	@W	@Y	@Yb	Ag	As	Cu
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GO_FAG313	GO_ICP13B	GO_ICP13B
Det.Lim.	0.02	0.05	0.1	0.05	0.1	10	0.01	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%
*Std OREAS503B	0.63	4.40	2.1	16.0	1.5			
*Std OREAS503B	0.57	3.84	2.2	15.1	1.4			
*Std OREAS601	0.73	1.88	1.3	6.08	0.3			
*Blk BLANK	<0.02	<0.05	<0.1	<0.05	<0.1			
*Blk BLANK	<0.02	<0.05	<0.1	<0.05	<0.1			
*Rep D00015534						7730		
*Std AMIS0271						7769		
*Blk BLANK						<10		
*Rep D00015534							2.92	24.5
*Std SU_1B							N.A.	1.19
*Std MP1B							2.25	2.97
*Std CD_1							0.67	N.A.
*Std CCU1D							N.A.	24.0
*Blk BLANK							<0.01	<0.01

Final : VC172273 Order: Kinskuch17-01 / 119 samples

Report File No.: 0000026625

Element	Ni	Sb	Zn	@S
Method	GO_ICP13B	GO_ICP13B	GO_ICP13B	GE_CSA06V
Det.Lim.	0.01	0.01	0.01	0.005
Units	%	%	%	%
D00014531	N.A.	N.A.	N.A.	N.A.
D00014532	N.A.	N.A.	N.A.	N.A.
D00014533	N.A.	N.A.	N.A.	N.A.
D00014534	N.A.	N.A.	N.A.	N.A.
D00014535	N.A.	N.A.	N.A.	N.A.
D00014536	N.A.	N.A.	N.A.	N.A.
D00014538	N.A.	N.A.	N.A.	N.A.
D00014539	N.A.	N.A.	N.A.	N.A.
D00014540	N.A.	N.A.	N.A.	N.A.
D00014541	N.A.	N.A.	N.A.	N.A.
D00014542	N.A.	N.A.	N.A.	N.A.
D00014543	N.A.	N.A.	N.A.	N.A.
D00014544	N.A.	N.A.	N.A.	6.09
D00014545	N.A.	N.A.	N.A.	N.A.
D00014546	N.A.	N.A.	N.A.	N.A.
D00014547	N.A.	N.A.	N.A.	N.A.
D00014548	N.A.	N.A.	N.A.	N.A.
D00014549	N.A.	N.A.	N.A.	N.A.
D00014550	N.A.	N.A.	N.A.	N.A.
D00015501	N.A.	N.A.	N.A.	N.A.
D00015502	N.A.	N.A.	N.A.	N.A.
D00015503	N.A.	N.A.	N.A.	N.A.
D00015504	N.A.	N.A.	N.A.	N.A.
D00015505	N.A.	N.A.	N.A.	N.A.
D00015506	N.A.	N.A.	N.A.	N.A.
D00015507	N.A.	N.A.	N.A.	N.A.
D00015508	N.A.	N.A.	N.A.	N.A.
D00015509	N.A.	N.A.	N.A.	N.A.
D00015510	N.A.	N.A.	N.A.	N.A.
D00015511	N.A.	N.A.	N.A.	N.A.
D00015512	N.A.	N.A.	N.A.	N.A.
D00015513	N.A.	N.A.	N.A.	N.A.
D00015514	N.A.	N.A.	N.A.	N.A.
D00015515	N.A.	N.A.	N.A.	N.A.
D00015516	N.A.	N.A.	N.A.	N.A.
D00015517	N.A.	N.A.	N.A.	N.A.
D00015518	N.A.	N.A.	N.A.	N.A.
D00015519	N.A.	N.A.	N.A.	N.A.
D00015520	N.A.	N.A.	N.A.	N.A.
D00015521	N.A.	N.A.	N.A.	N.A.

Final : VC172273 Order: Kinskuch17-01 / 119 samples

Report File No.: 0000026625

Element	Ni	Sb	Zn	@S
Method	GO_ICP13B	GO_ICP13B	GO_ICP13B	GE_CSA06V
Det.Lim.	0.01	0.01	0.01	0.005
Units	%	%	%	%
*Dup D00015521	N.A.	N.A.	N.A.	N.A.
D00015522	N.A.	N.A.	N.A.	N.A.
D00015523	N.A.	N.A.	N.A.	N.A.
D00015524	N.A.	N.A.	N.A.	N.A.
D00015525	N.A.	N.A.	N.A.	N.A.
D00015526	N.A.	N.A.	N.A.	N.A.
D00015527	N.A.	N.A.	N.A.	N.A.
D00015528	N.A.	N.A.	N.A.	4.81
D00015529	N.A.	N.A.	N.A.	N.A.
D00015530	N.A.	N.A.	N.A.	N.A.
D00015531	N.A.	N.A.	N.A.	N.A.
D00015532	N.A.	N.A.	N.A.	6.66
D00015533	N.A.	N.A.	N.A.	N.A.
D00015534	1.27	16.5	1.45	17.1
D00015535	N.A.	N.A.	N.A.	N.A.
D00015536	N.A.	N.A.	N.A.	N.A.
D00015551	N.A.	N.A.	N.A.	N.A.
D00015552	N.A.	N.A.	N.A.	N.A.
D00015553	N.A.	N.A.	N.A.	N.A.
D00015554	N.A.	N.A.	N.A.	N.A.
D00015555	N.A.	N.A.	N.A.	N.A.
D00015556	N.A.	N.A.	N.A.	N.A.
D00015557	N.A.	N.A.	N.A.	N.A.
D00015558	N.A.	N.A.	N.A.	N.A.
D00015559	N.A.	N.A.	N.A.	N.A.
D00015560	N.A.	N.A.	N.A.	5.20
D00015561	N.A.	N.A.	N.A.	N.A.
D00015562	N.A.	N.A.	N.A.	N.A.
D00015563	N.A.	N.A.	N.A.	N.A.
D00015564	N.A.	N.A.	N.A.	N.A.
D00015565	N.A.	N.A.	N.A.	N.A.
D00015566	N.A.	N.A.	N.A.	6.81
D00015567	N.A.	N.A.	N.A.	N.A.
D00015568	N.A.	N.A.	N.A.	N.A.
D00015569	N.A.	N.A.	N.A.	N.A.
D00015570	N.A.	N.A.	N.A.	N.A.
D00015571	N.A.	N.A.	N.A.	N.A.

Final : VC172273 Order: Kinskuch17-01 / 119 samples

Report File No.: 0000026625

Element	Ni	Sb	Zn	@S
Method	GO_ICP13B	GO_ICP13B	GO_ICP13B	GE_CSA06V
Det.Lim.	0.01	0.01	0.01	0.005
Units	%	%	%	%
*Rep D00015534	1.26	16.7	1.48	
*Std SU_1B	1.88	N.A.	N.A.	
*Std MP1B	N.A.	N.A.	16.8	
*Std CD_1	N.A.	3.49	N.A.	
*Std CCU1D	<0.01	N.A.	2.69	
*Blk BLANK	<0.01	<0.01	<0.01	
*Std OREAS134A				19.6
*Blk BLANK				<0.005

Appendix F: Maps

OREVISTA
exploration

473000 474000 475000 476000 477000 478000 479000 480000 481000

6170000 6169000 6168000 6167000 6166000

N

20 35 42 58 46 68 38

Legend

- Kinskuch Claim Outlines
- Lakes
- Creeks
- Contour (20m)

Contacts/Structure

- Limit of Outcrop
- Contact Defined
- Contact Approximate
- Contact Inferred
- Contact approximate
- Contact inferred
- Fault Mapped
- Fault Approximate
- Fault Inferred
- Reverse fault defined (>30)
- Strike-slip defined (sub-vertical)
- Strike-slip approximate
- Antiform Trace
- Synform Trace
- Stage 3 vein trace
- 25 Bedding
- 25 Bedding Upright

Outcrop Lithology

- Edrt: Eocene diorite dikes
- EJrKdrt P4: Early Jurassic Kinskuch suite monzonite Phase 4
- EJrKdrt P3: Early Jurassic Kinskuch suite diorite Phase 3
- EJrKbx: Early Jurassic Kinskuch suite 'Bonnie Breccia' pipe
- EJrKsqv: Early Jurassic Kinskuch suite sheeted quartz veins
- EJrKdrt P2: Early Jurassic Kinskuch suite diorite Phase 2
- EJrKdrt P1: Early Jurassic Kinskuch suite diorite Phase 1
- UJrHfel: Middle Jurassic Hazelton Group felsic volcanic rocks
- MJrsslt: Middle Jurassic Hazelton Group clay-silt-argillite
- LJrHsslt: Lower Jurassic Hazelton Group clay-silt-argillite (mudstone)
- UTrS-LJrHsed: Upper Triassic Stuhini to Lower Jurassic Hazelton sedimentary rocks
- LJrHafl: Lower Jurassic Hazelton Group andesite flow
- LJrHalpt: Lower Jurassic Hazelton Group andesite lapilli tuff
- LJrHalpt: Lower Jurassic Hazelton Group andesite lapilli tuff
- LJrHand: Lower Jurassic Hazelton Group andesite undivided
- LJrHatbx: Lower Jurassic Hazelton Group andesite tuff breccia
- LJrHaxt: Lower Jurassic Hazelton Group andesite crystal tuff
- LJrHdf: Lower Jurassic Hazelton Group andesite debris flow
- LJrHvcl: Lower Jurassic Hazelton Group andesite volcaniclastic/epiclastic rocks
- UTrSb: Upper Triassic Stuhini Group basalt
- UTrSbss: Upper Triassic Stuhini Group basalt-siltstone
- UTrSsed: Upper Triassic Stuhini Group siltstone-sandstone
- PTSc: Paleozoic-Triassic ?Stuhini chert

Inferred Lithology

- Edrt: Eocene diorite dikes
- EAmonz: Eocene Alice Arm monzonite
- ECPC: Eocene Coast Plutonic Complex
- EJrKdrt P4: Early Jurassic Kinskuch suite monzonite Phase 4
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- SEDS: Hazelton mudstone
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- LJrHss: Lower Jurassic Hazelton Group sandstone
- LJrHsslt: Lower Jurassic Hazelton Group clay-silt-argillite (mudstone)
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- LJrHcgl: Lower Jurassic Hazelton Group conglomerate
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OK2 MINERALS LTD

KINSKUCH PROPERTY
PROPERTY GEOLOGY

Date	Nov 22nd, 2017	Scale	1:10,000
Projection	NAD83 - Zone 9	Province	British Columbia
Author	D. Perry	File	Kinskuch17_Geol
		Map	4

0 250 500 1,000 Meters

N

2.5 Km

473000 474000 475000 476000 477000 478000 479000 480000 481000

6170000 6169000 6168000 6167000 6166000 6165000

N

Legend

- Kinskuch Claim Outlines
- Lakes
- Creeks
- Contour (20m)

Contacts/Structure

- Limit of Outcrop
- Contact Defined
- Contact Approximate
- Contact Inferred
- Contact approximate
- Contact inferred
- Fault Mapped
- Fault Approximate
- Fault Inferred
- Reverse fault defined (>30)
- Strike-slip defined (sub-vertical)
- Strike-slip approximate
- Antiform Trace
- Synform Trace
- Stage 3 vein trace

Alteration

- ARG: Argillic
- KP: Potassic - K-FD, Qtz, Cp (porphyry)
- PR: Propylitic - Chl, Ep, Py, Carb, Mag
- QA: Albitic (core area) - Ab, Cb, Chl, Py, Cp, Ser (porphyry)
- QSP: Phyllic - Qtz, Ser, Tour, Py, remnant Ks, Cp, Mo (hydro, breccia+porphyry)

Outcrop Lithology

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- LJrHaxt: Lower Jurassic Hazelton andesite crystal tuff
- UTrSb: Upper Triassic Stuhini Group basalt
- UTrSsed: Upper Triassic Stuhini Group siltstone-sandstone
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OK2 MINERALS LTD

KINSKUCH PROPERTY
ALTERATION

Date	Nov 22nd, 2017	*Scale*	1:10,000
Projection	NAD83 - Zone 9	Province	British Columbia
Author	D. Perry	*File*	Kinskuch17_Alt

Map 5

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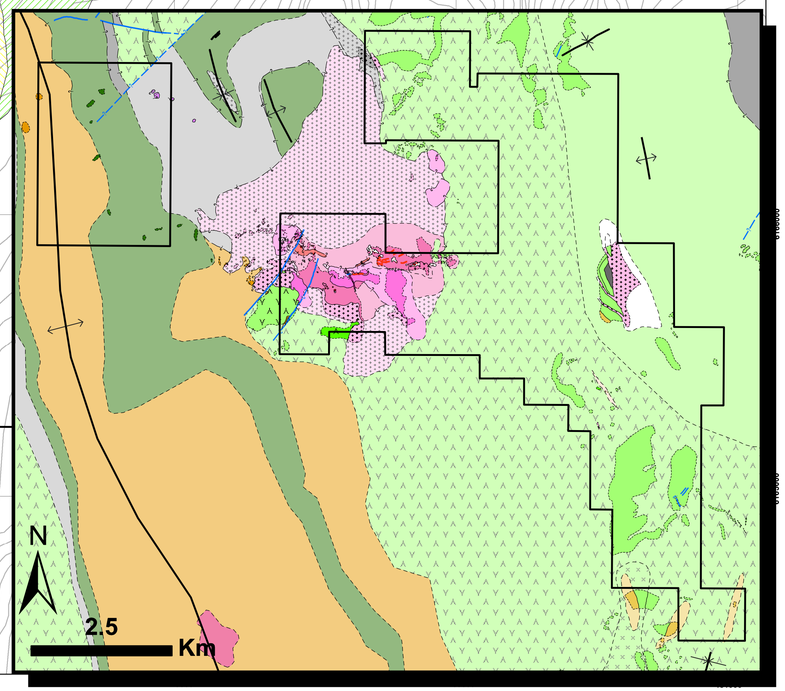

OREVISTA
exploration

474000 475000 476000 477000 478000 479000 480000 481000 482000

6171000 6170000 6169000 6168000 6167000 6166000

Golden Mickey

D00014538 D00014539

D00015534

1,000 Meters

Kinskuch Lake

D00015906

D00015539
D00015540
D00015541

5 Km

VMS

D00015587 D00015586

D00015801 D00015805
D00015802 D00015803
D00015576
D00015804 D00015665
D00015667 D00015665
D00015575

D00015584 D00015585
D00015583

Inset 1

D00015568
D00015522
D00015501
D00015602
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D00014540
D00015524
D00014541
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D00015528
D00015530
D00015557
D00015531
D00015518
D00015564
D00016623
D00015519
D00015559

See Inset 1

Big Bulk

D00015533
D00015568
D00015522
D00014535
D00014546
D00015569
D00014536
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D00015565
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D00015542
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D00015573
D00015588
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D00015550
D00015643

D00015901

D00015590
D00015908
D00015675
D00015589
D00015907

N

0 250 500 1,000 Meters

1,000 Meters

OK2 MINERALS LTD

KINSKUCH PROPERTY

2017 Sample Locations

Date	Nov 22nd, 2017	*Scale*	1:10,000
Projection	NAD83 - Zone 9	*Province*	British Columbia
Author	D. Perry	*File*	Kinskuch17_SampLoc

Map 6

Legend

- Kinskuch Claim Outlines
- Lakes
- Creeks
- Contour (20m)
- Rock Samples
- Stream Sediment Samples

OREVISTA
exploration

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KINSKUCH PROPERTY

2017 Geochemistry

Date	Nov 22nd, 2017	Scale	1:10,000
Projection	NAD83 - Zone 9	Province	British Columbia
Author	D. Perry	File	Kinskuch17_Geochem

Map 7

Legend

- Kinskuch Claim Outlines
- Lakes
- Creeks
- Contour (20m)
- Rock Samples: Cu (ppm), Au (ppm)
- Stream Sediment Samples: Cu (ppm), Au (ppb)

Kinskuch Lake

Golden Mickey

50.2,31, (0.34, 9.3, 99)
206,59, (1.23, 39.6, 70)
100,000, 242,000, (7688, 0.6, 14,500)

1,000 Meters

See Inset 1

Big Bull

Inset 1

VMS

264.0, (3.48, 161, 757)
73.6,8, (0.18, 99, 249)
53.2,6, (0.22, 11, 124)
6480,647, (1.86, 6.7, 52)
73.9,9, (0.16, 9.5, 89)
76.4,11, (0.32, 17.2, 134)
47.2,0, (0.41, 37.7, 157)
1800,10, (0.97, 23.3, 131)
87.4,18, (0.17, 11.4, 79)
42.4,19, (0.25, 29.4, 93)
353,61, (5.87, 11,200, 22,300)
773,109, (5.91, 9840, 30,800)
244,69, (4.19, 10,600, 37,900)
456,20, (57.9, 50,800, 44,700)
70.7,0, (0.09, 29.6, 100)
170.7, (0.37, 62.6, 80)
3850,89, (2.89, 9.6, 243)
287,19, (0.25, 5.6, 78)

5 Km

0 250 500 1,000 Meters

1,000 Meters

Cu (ppm), Au (ppb), (Ag (ppm), Pb (ppm), Zn (ppm)

N

474000 475000 476000 477000 478000 479000 480000 481000 482000

6171000 6170000 6169000 6168000 6167000 6166000

Appendix G: ZTEM Geophysical Survey

KINSKUCH ZTEM SURVEY INTERPRETATION REPORT

PREPARED FOR:

OK2 MINERALS LTD.

OK2 MINERALS

SUITE 480 - 505 BURRARD STREET,
BENTALL ONE - BOX 217
VANCOUVER, BC
CANADA V7X 1M3

PREPARED BY:

SEAN WALKER, M.SC, P.GEO

Campbell & Walker Geophysics Ltd.

4505 COVE CLIFF ROAD,
NORTH VANCOUVER, BC,
CANADA V7G 1H7

COMPLETED:

DECEMBER 2017

Executive Summary

During the summer of 2017 a ZTEM airborne geophysical survey was flown over the Kinskuch project claim blocks. The survey data provided information about the resistivity and magnetic susceptibility distributions within the project area. Interpretation of the data resulted in the identification of three potential zones of interest. Follow up ground geophysics is recommended on the highest priority zone. The remaining two zones require further analysis of the geophysical responses relative to existing geological and geochemical data prior to undertaking further work.

Table of Contents

List of Figures

1 INTRODUCTION

1.1 Location

The Kinskuch project is located in northwestern British approximately 50km southeast of Stewart or 125 km northwest of Terrace.

1.2 Claim blocks

The project is made up of three blocks of claims; Big Bulk, VMS and Golden Mickey (Figure 1).

1.3 Survey coverage

During the period from June 3rd to August 3rd, 2017 Geotech Ltd. carried out a helicopter-borne geophysical survey for Hecla Quebec, Inc. This survey included coverage of the OK2 Minerals Ltd. Kinskuch project claim blocks.

The primary geophysical sensor for the survey was a Z-Axis Tipper electromagnetic (ZTEM) system. The geophysical system also included a cesium magnetometer. Ancillary equipment included a GPS navigation system and a radar altimeter. A total of 331.5 line-km of geophysical data were acquired over the OK2 claims blocks during the survey.

The survey operations were based out of Stewart, British Columbia. During the acquisition phase of the survey data quality assurance and preliminary processing were carried out in the field. Preliminary and final data processing, including generation of final digital data and map products were completed at the office of Geotech Ltd. in Aurora, Ontario.

2 ZTEM and Magnetics Survey

2.1 System description

In a ZTEM survey, a single vertical-dipole air-core receiver coil is towed below the helicopter. The survey area is flown in a grid pattern, similar to regional airborne EM surveys. Two orthogonal, ferrite-core horizontal sensors are placed close to the survey site to measure the horizontal EM reference fields. Data from the three sensors are used to obtain the tipper components (Vozoff, 1972) at six frequencies in the 22 to 360 Hz band. A typical helicopter ZTEM system (including a magnetometer) is shown in Figure 2.

The ZTEM system is sensitive to resistivity contrasts within the subsurface. The magnetometer data provides additional related to magnetic susceptibility contrasts. Interpretation of these two data sets can identify anomalous responses that may provide information about the geology in the survey area.

2.2 Survey specifications

The survey area was flown with traverse lines oriented east to west (N 90° E azimuth) and a line spacing of 200 m. Tie lines were flown perpendicular to the traverse lines at a spacing of 2 km.

Topographically, the survey area exhibits a high relief with an elevation ranging from 618 to 2278 m above mean sea level. There are visible signs of culture such as roads and buildings throughout the survey area. During the survey, the helicopter was maintained at a mean altitude of 302 m above the ground with an average survey speed of 80 km/hour. This allowed for an actual average receiver loop terrain clearance of 231 m and a magnetic sensor clearance of 246 m.

2.3 Data products delivered

The processed survey results were delivered as profiles (Geosoft database) and interpolated raster images (Geosoft grids). The profile data consisted of total field intensity magnetics and Tzx (X) in-line and Tzy (Y) cross-line, inphase and quadrature tipper data at 22, 30, 45, 90, 180 and 360 Hz. Raster images were provided of all the profile data channels. In addition, processed total divergence (DT), phase rotated (PR) and total phase rotated (TPR) raster images were provide for each component and frequency. 2D inversions over all lines were performed in support of the ZTEM survey results.

3 Geophysical Interpretation

3.1 Methodology

Interpretation of the geophysical data involved the careful review of the profile data as well as the gridded data products. Anomalous responses were identified within each data set. A final interpretation was prepared for each claim block area based on the geophysics and geology.

3.2 ZTEM

3.2.1 Tipper data

The rawest form of measured data that the ZTEM system provides are called tippers. At each location two tipper components (Tzx and Tzy) are calculated. Tzx is the X component, where X is defined as the along line direction and Tzy is the Y component, where Y is defined as the cross-line direction. Tzx and Tzy are calculated at six frequencies (22, 30, 45, 90, 180 and 360 Hz). In general, the low frequencies will penetrate deeper than high frequencies. Since the data are in the frequency domain Tzx and Tzy are complex numbers and are made up of an inphase (IP) and quadrature (QD) component. For the Kinskuch survey there at 24 measurements (2 tippers [Tzx, Tzy], 6 frequencies [22, 30, 45, 90, 180, 360], and 2 components [IP, QD]) at each survey location. ZTEM surveys generate large amounts of data that require detailed review and analysis.

3.2.2 Derived Data

The tipper response over an anomalous resistivity zone is a cross over. Geophysicists tend to prefer looking for peaks over anomalies. Therefore, in order aid interpretation Geotech provide two derived gridded data products; 1) the total divergence (DT) 2) and total phase rotated (TPR).

DT grids are calculated in a three step process:

1. Calculate the derivative in the X direction of the X component tipper data
2. Calculate the derivative in the Y direction of the Y component tipper data
3. Combine the derivatives by adding the grids together.

TPR grids are calculated in a three step process:

1. Rotate the X component tipper data using an FFT reduction to pole algorithm (Incl: 45, Decl: 90)
2. Rotate the Y component tipper data using an FFT reduction to pole algorithm (Incl: 45, Decl: 0)
3. Combine the phase rotated tippers by adding the grids together.

The word “Total” refers to the fact that the final products are a combination of the X and Y components. Individual phase rotated (PR) grids are also generated during this process.

The TPR inphase grids for 30, 90 and 360 Hz are shown in Figure 3, Figure 4, and Figure 5.

3.2.3 2D Inversion Methodology

Interpretation of tipper and TPR data is useful in identifying zones of increased or decreased resistivity. However, in order to provide a quantitative estimate of the depth and resistivity it is necessary to model the data. Geotech provide 2D inversion models for each line of the survey. While these resistivity sections are very useful there are a few things to remember when looking at the inversion results.

The first is that ZTEM data is sensitive to conductivity changes not absolute conductivity values. This means that 10 Ohm-m block in a 100 Ohm-m half space will have the same response as a 100 Ohm-m block in a 1000 Ohm-m half space. The result of this is that it is difficult to pick a background model for the inversion. Geotech deals with this by running a few inversions with different background models and determining the model with the best data fit. The second point is that ZTEM data is insensitive to a layered earth or half space. The fields in areas like this are horizontal, which means the tipper is zero. This can result in the inversion model reverting to the background even if the actual resistivity should be different. Unfortunately, not much can be done about this besides being aware. And finally, the 2D inversion only inverts the X component data. By using a 2D model the fields are not allowed to vary in the Y direction. This assumption makes the inversion process quicker and mathematically easier, however any information contained in the Y component tipper data will not be reflected in the final model. For comparison sake the X component inphase PR grids for 30, 90 and 360 Hz are shown in Figure 7, Figure 8, and Figure 9. The line work in Figure 10 shows a comparison of anomalies identified in the TPR and PR grids. While there are some differences between the TPR and PR grids the majority of the anomalous responses follow an approximately north-south trend. Prior to interpreting the results of an inversion, it is important to have understanding of the data. The grey polygons in Figure 10 represent the expected location of anomalous (low resistivity zones based on the data).

As mentioned previously the 2D inversion process generates resistivity sections for each line in the survey. Each of the sections were stitched together to create a pseudo 3D resistivity model of the survey area (Figure 11). Depth slices through the model at 200, 400, 600, 800, and 1000 m below the surface are shown in Figure 12, Figure 13, Figure 14, Figure 15, and Figure 16.

3.2.4 2D Inversion Results

The inversion results suggest the presence of three north-south trending low resistivity zones. Even though the Y component has not been included in the inversion the model shows a good correlation with the TPR data (Figure 17).

3.3 Magnetics

3.3.1 Data processing

Based on survey theory (Reid, 1980) potential field data that will be used in grid based processing should be collected at a height of at least half the line spacing. The line spacing of the Kinskuch survey was 200 m and the average height of magnetometer was 246 m. In general, this data would not require -processing before Fast Fourier Transform (FFT) analysis. However, due to the rugged terrain the magnetic grid contained high frequency components that could cause problems during FFT derivative calculation. An upward continuation of 50 m was applied to the grid in order to suppress these features and improve the quality of the derived FFT products.

After upward continuation, the data was reduced to the pole. Reduction to magnetic pole (RTP) makes magnetic interpretation more straightforward and is commonly performed

prior to derivative based FFT filtering. FFT based derivative filters (Verduczo et. al. 2004) such as the first vertical derivative and analytical signal can be used to enhance trends within the gridded magnetic data. The analytical signal (AS) is the sum of the gradient amplitudes in each direction (X, Y and Z).

3.3.2 Results

The RTP grid shows zones of suppressed magnetic response (Figure 18). The AS grid (Figure 19) highlights the location of distinct magnetically quiet zones within the survey area.

3.4 Integrated Interpretation Results

The results from the ZTEM and magnetics interpretation are summarized in Figure 20. The magnetically active zones (inside the green polygons) are anti-correlated with the north-south low resistivity zones (red and blue polygons). The three tow resistivity zones are labelled A, B and C.

- Zone A is more conductive than the surrounding in each of the inversion depth slices. Based on the geological mapping Zone A appears to be within the Stuhini Group siltstone-sandstone. The zone covers the eastern portion of the Golden Mickey claim block.
- Zone B is quite complex. The northern part of the trend (outside the Big Bulk claim block) appears to be similar in character to Zone A. However, the southern part of the trend shows some variation with depth. This part of the trend correlates quite well with the mapped alteration zone (grey polygon). The southern part of the trend lies on the Big Bulk claim block and is coincident with the 2017 OK2 sampling program.
- Zone C covers the VMS claim block and appears to be within the Hazelton Group andesite. The irregular character of the resistivity model is similar to the southern part of Zone B.

4 Conclusions and Recommendations

The Kinskuch ZTEM survey has provided additional information about the resistivity and magnetic susceptibility distributions within the project area. Interpretation of the data has identified three potential zones of interest. The southern portion of Zone B on the Big Bulk claim block is the highest priority due to its coincidence with the mapped alteration. The discontinuous nature of the conductors is interesting and perhaps could be indicative of alteration, faulting or deformation. It is recommended to collect ground geophysical data (DC resistivity, induced polarization and magnetics) over the anomalous zone. The exact extents of the survey should be fine-tuned using the ZTEM data and any existing sampling and/or drilling results. Zone C (VMS claim block) is a moderate priority based on its similarity to Zone B. If there is promising geology and/or geochemical results in the area the priority could increase. Zone A lower has the lowest priority. The ZTEM inversion model suggests that the relatively strong and continuous ow resistivity zone is coincident with the regional sedimentary unit. More geological and/or geochemical data could improve this assessment.

5 References

Reid, A. B., 1980, Aeromagnetic Survey Design: Geophysics, 45, 973-976.

Verduzco, B., J. D. Fairhead, C. M. Green, and C. MacKenzie, 2004, New insights into magnetic derivatives for structural mapping: The Leading Edge, 23, 116–119.

Vozoff, K., 1972, The magnetotelluric method in the exploration of sedimentary basins: Geophysics, 37, 98–141.

6 Figures

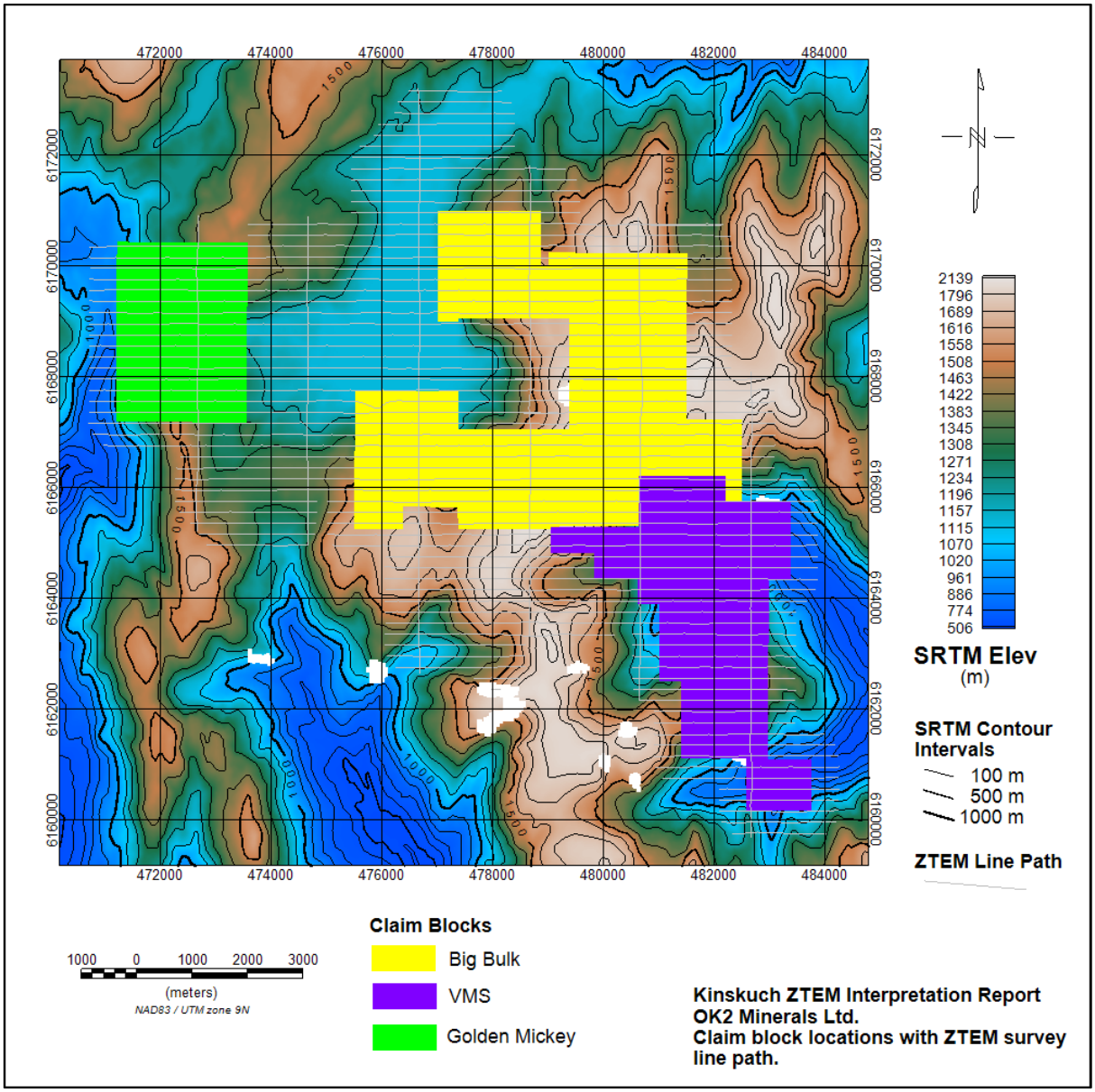

Figure 1. Kinskuch project claim block locations. The claim blocks are displayed as filled polygons over the gridded SRTM digital elevation model.

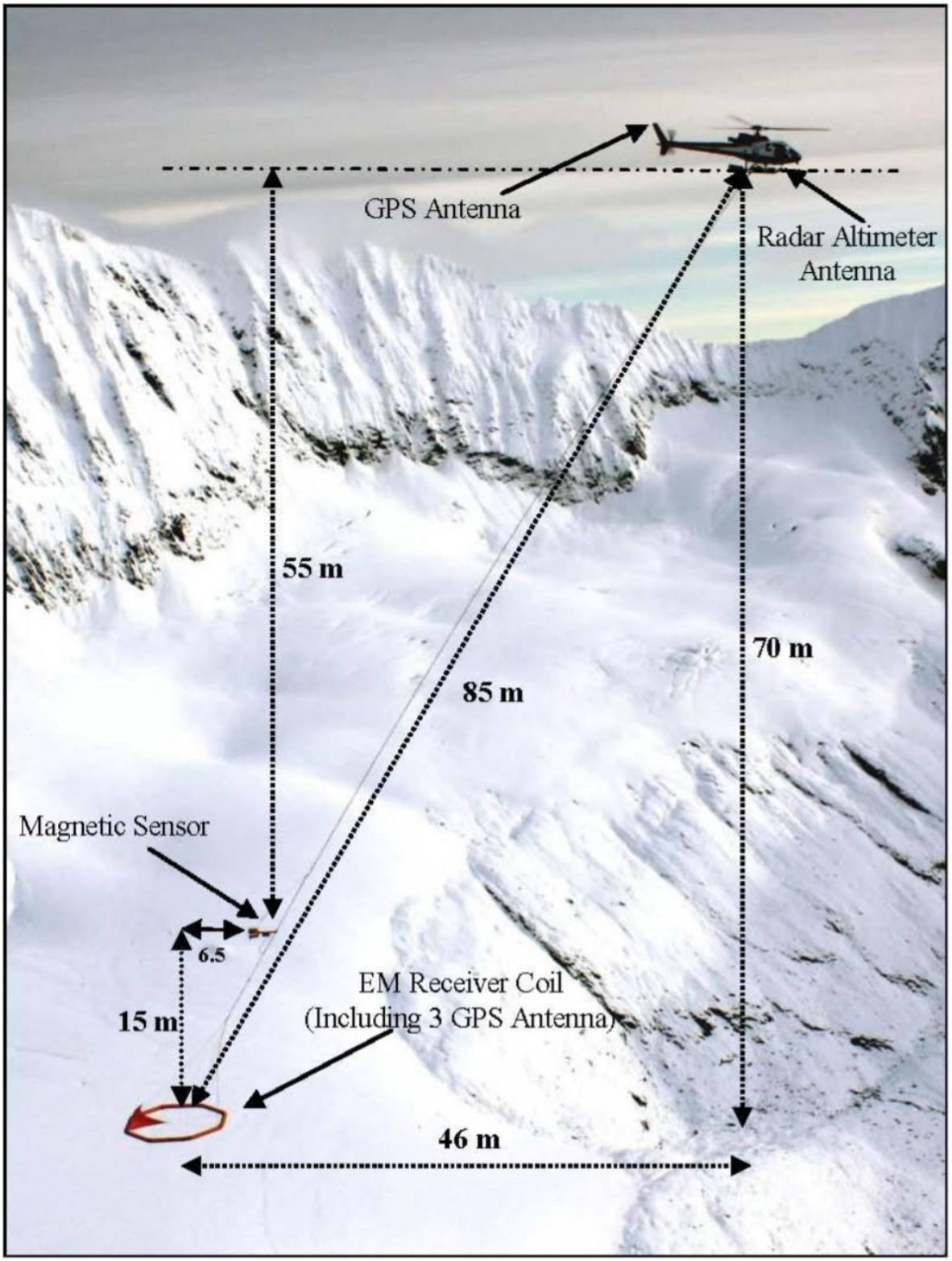

Figure 2. A typical Geotech ZTEM system (from Geotech.ca).

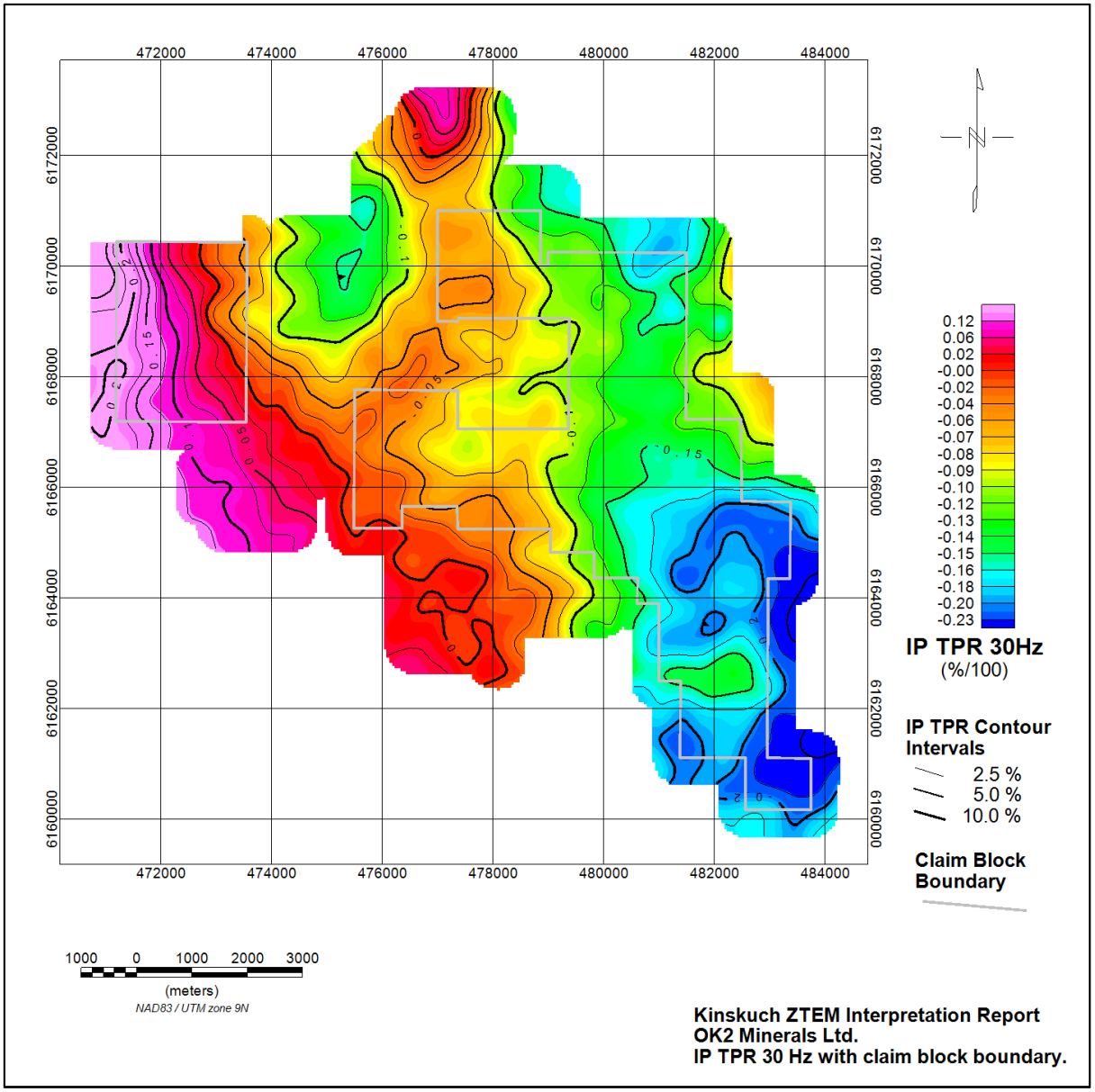

Figure 3. ZTEM inphase total phase rotated 30 Hz data.

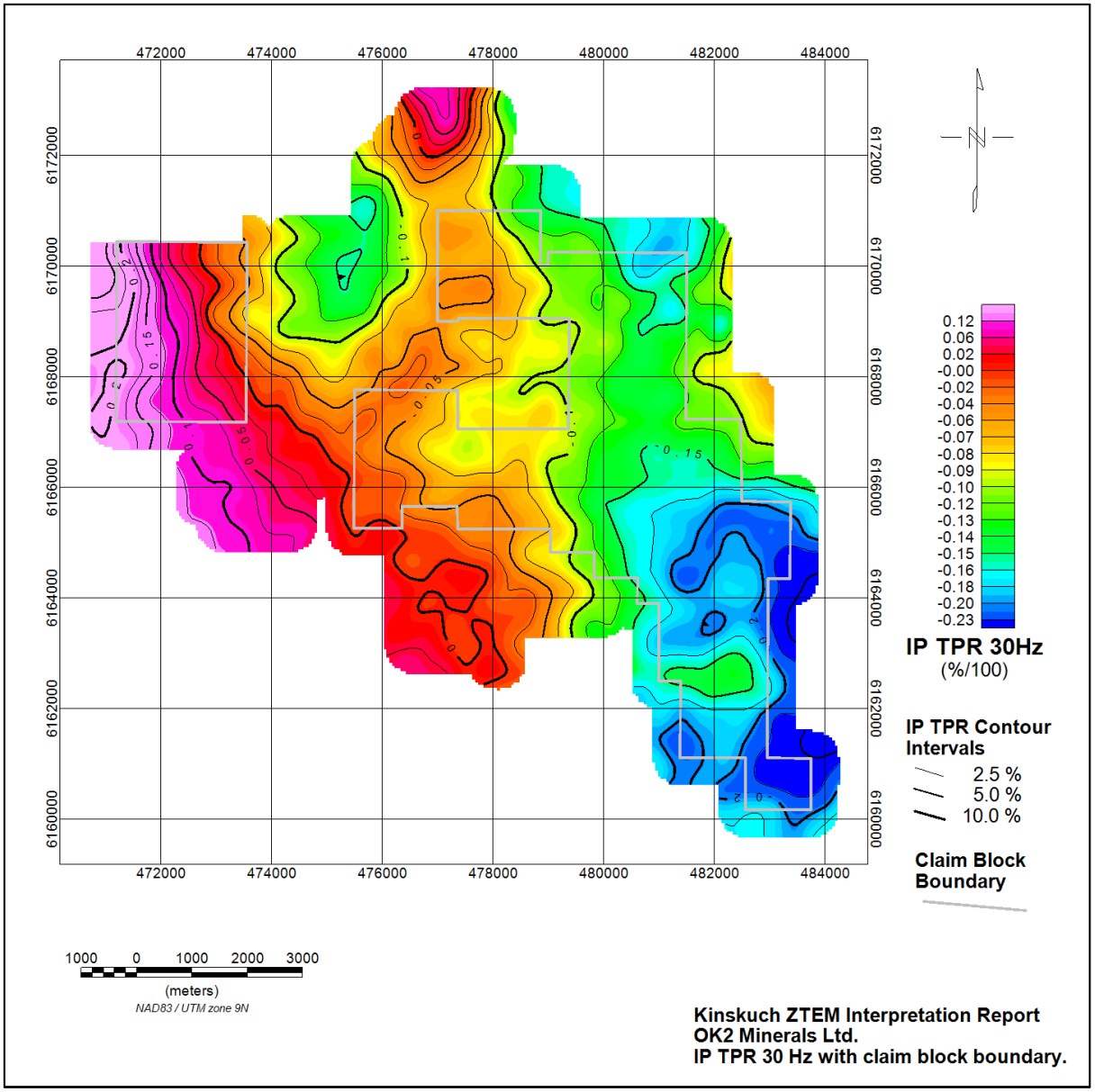

Figure 4. ZTEM inphase total phase rotated 30 Hz data.

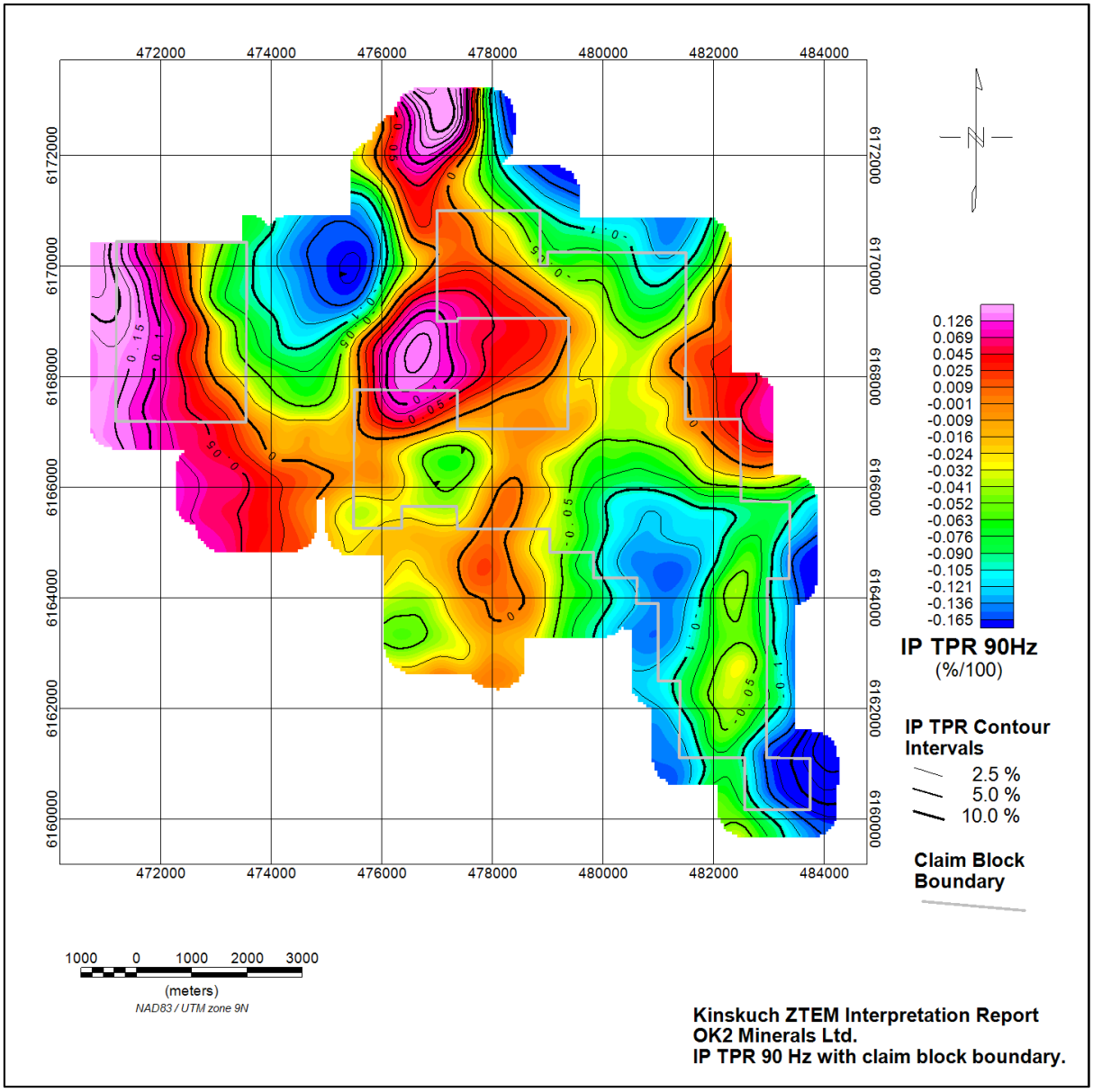

Figure 5. ZTEM inphase total phase rotated 90 Hz data.

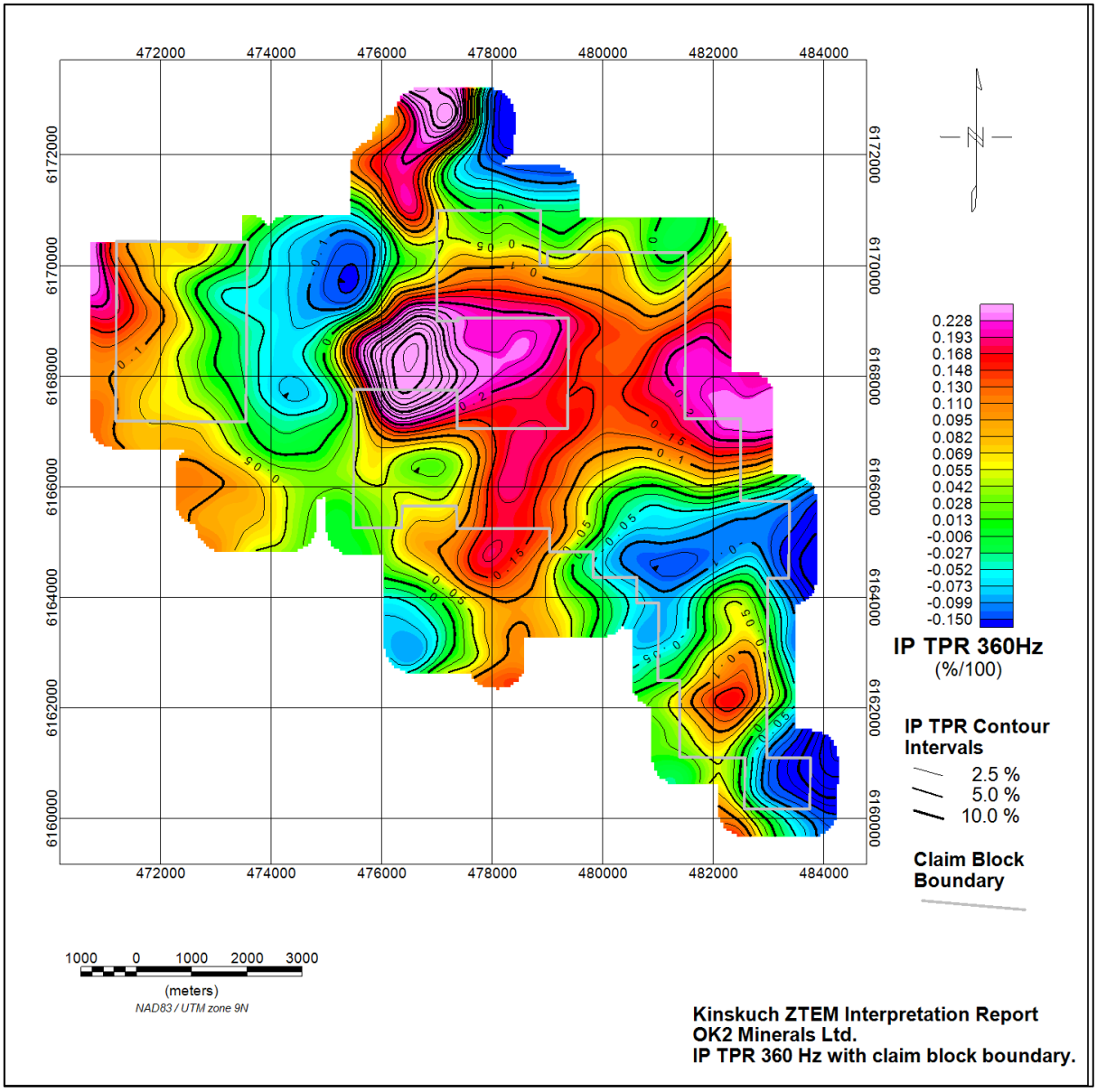

Figure 6. ZTEM inphase total phase rotated 360 Hz data.

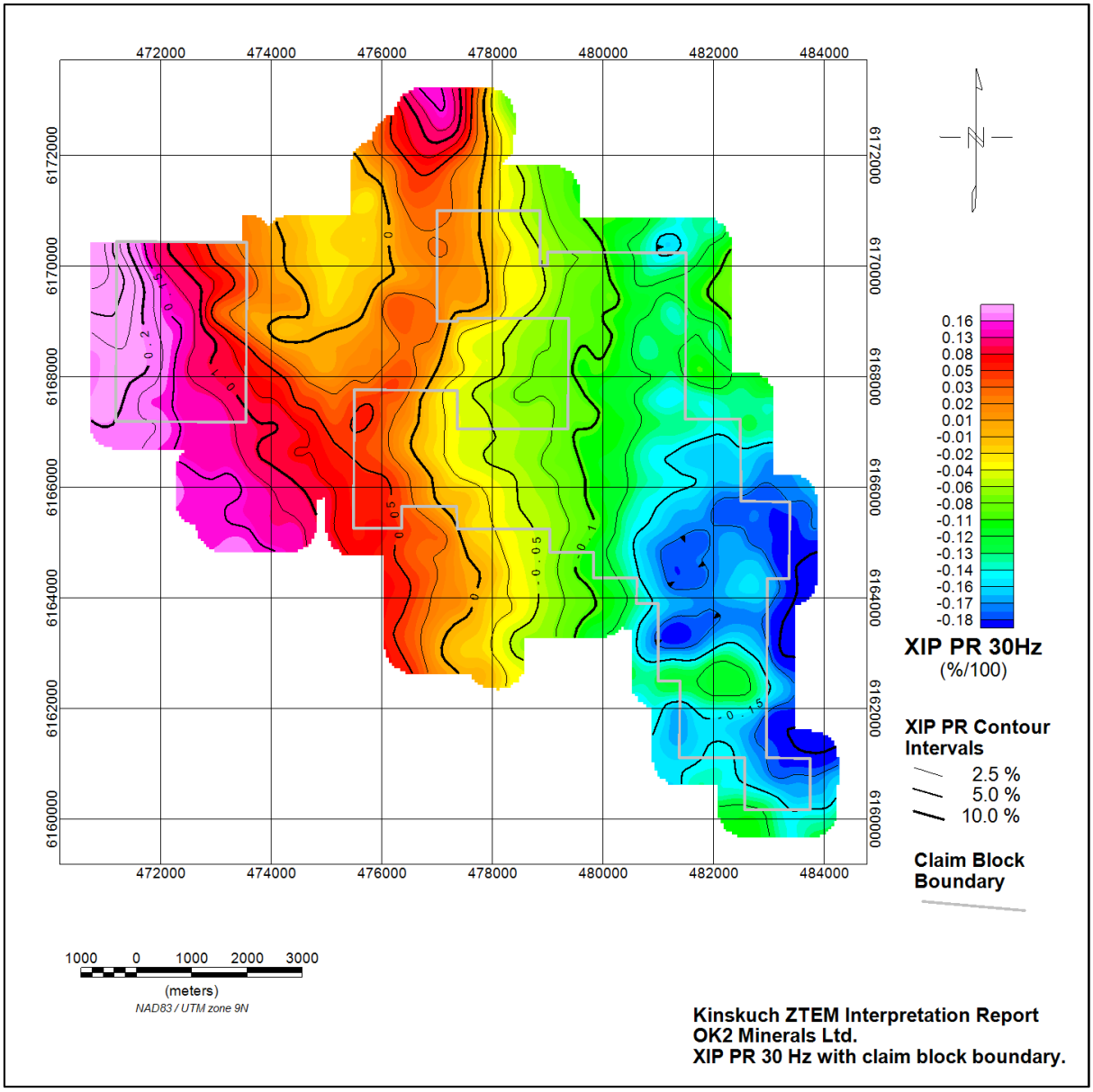

Figure 7. ZTEM x component inphase phase rotated 30 Hz data.

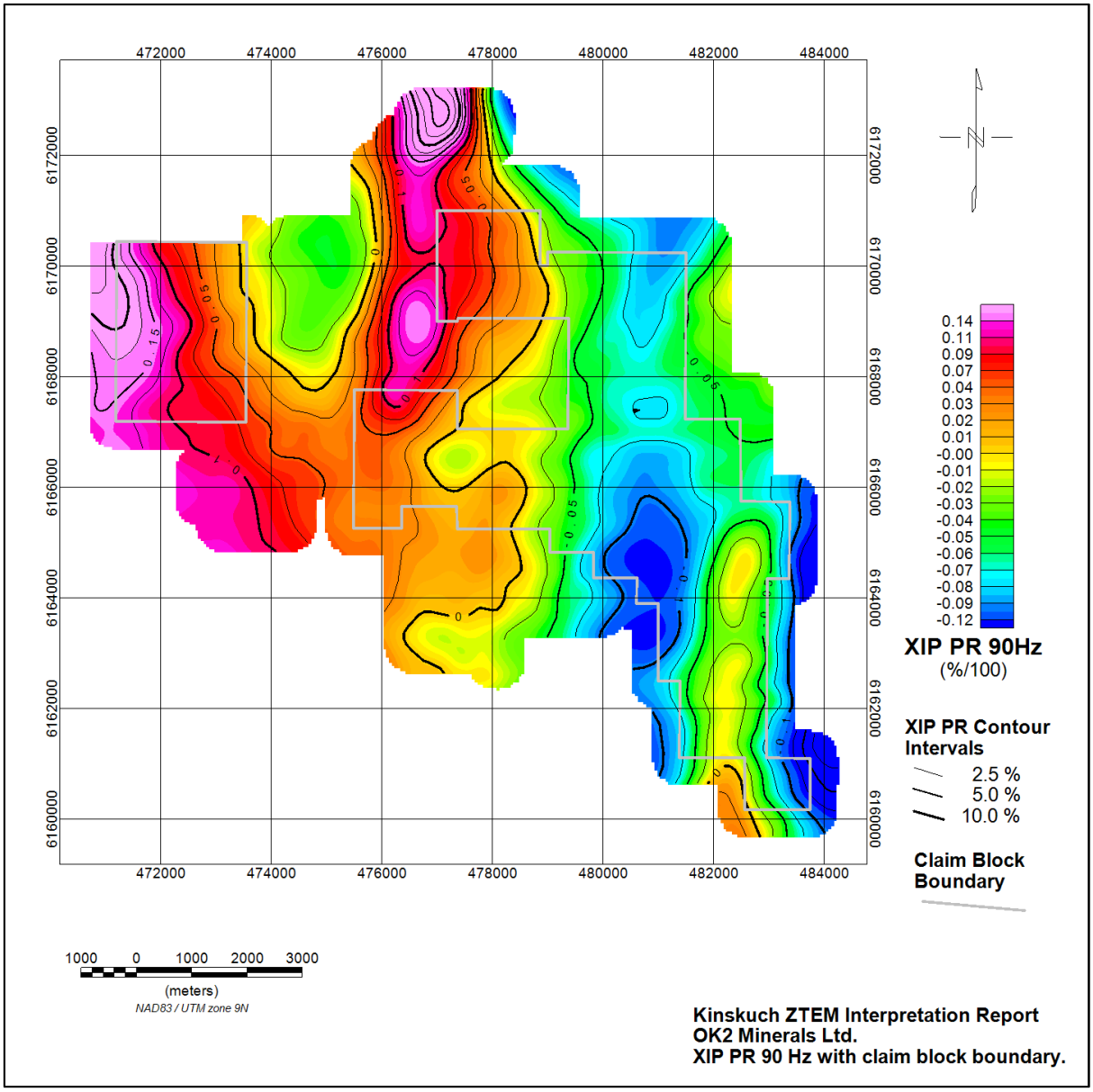

Figure 8. ZTEM x component inphase phase rotated 90 Hz data.

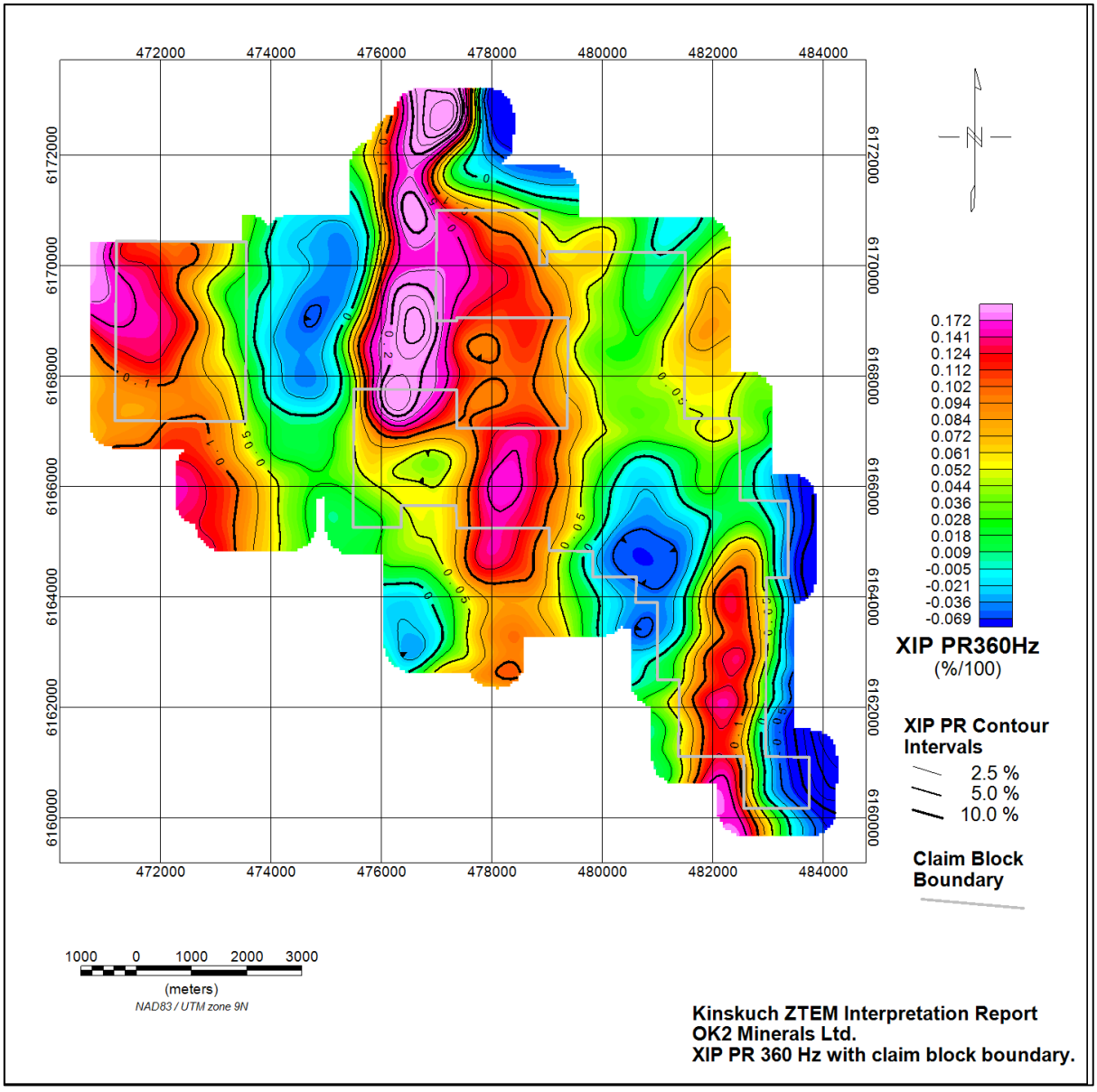

Figure 9. ZTEM x component inphase phase rotated 360 Hz data.

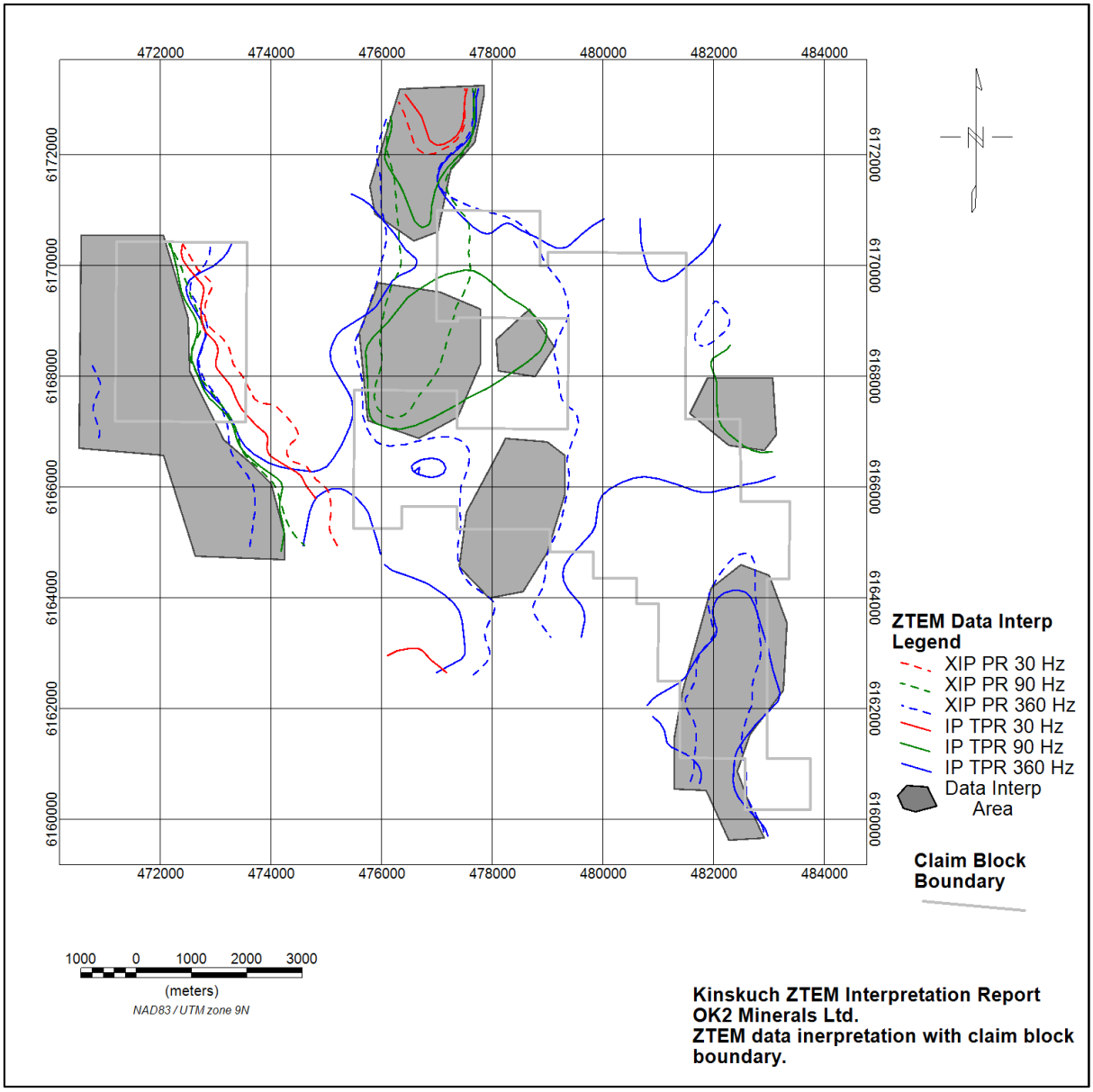

Figure 10. ZTEM data interpretation.

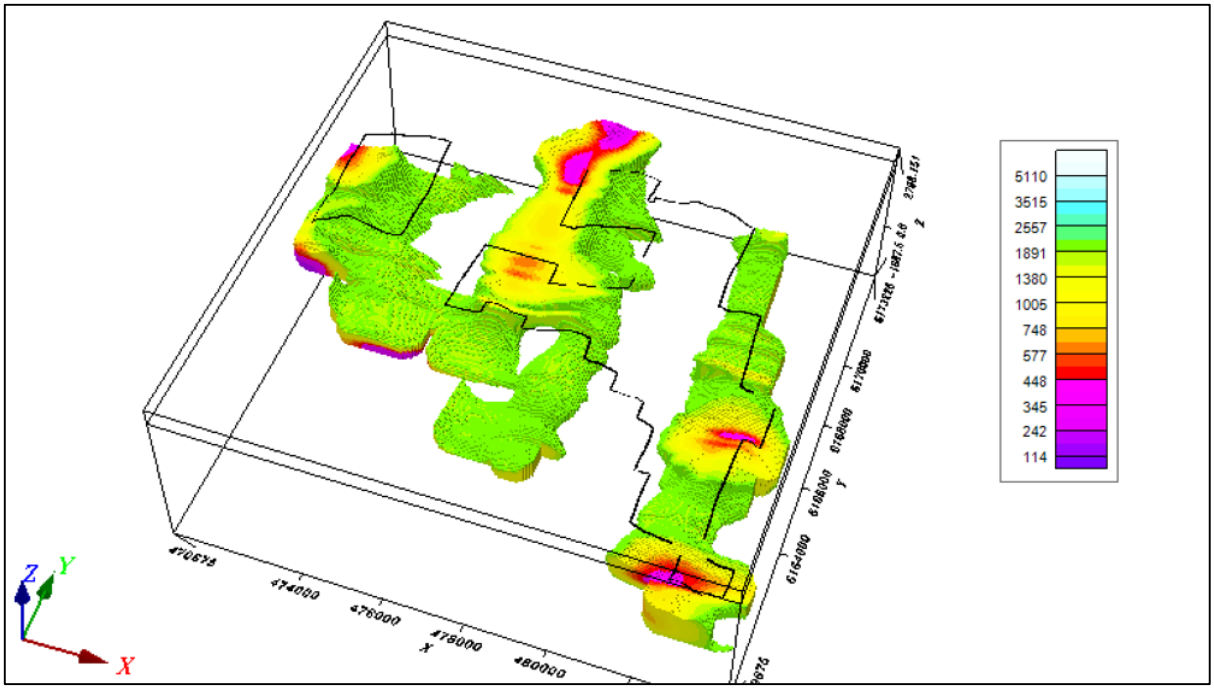

Figure 11. ZTEM 2D inversion resistivity model. The model is clipped at 2000 Ohm m. The voxel is clipped at 200 m elevation. Black polygons are claim block boundary draped on topography. The color bar units are Ohm m.

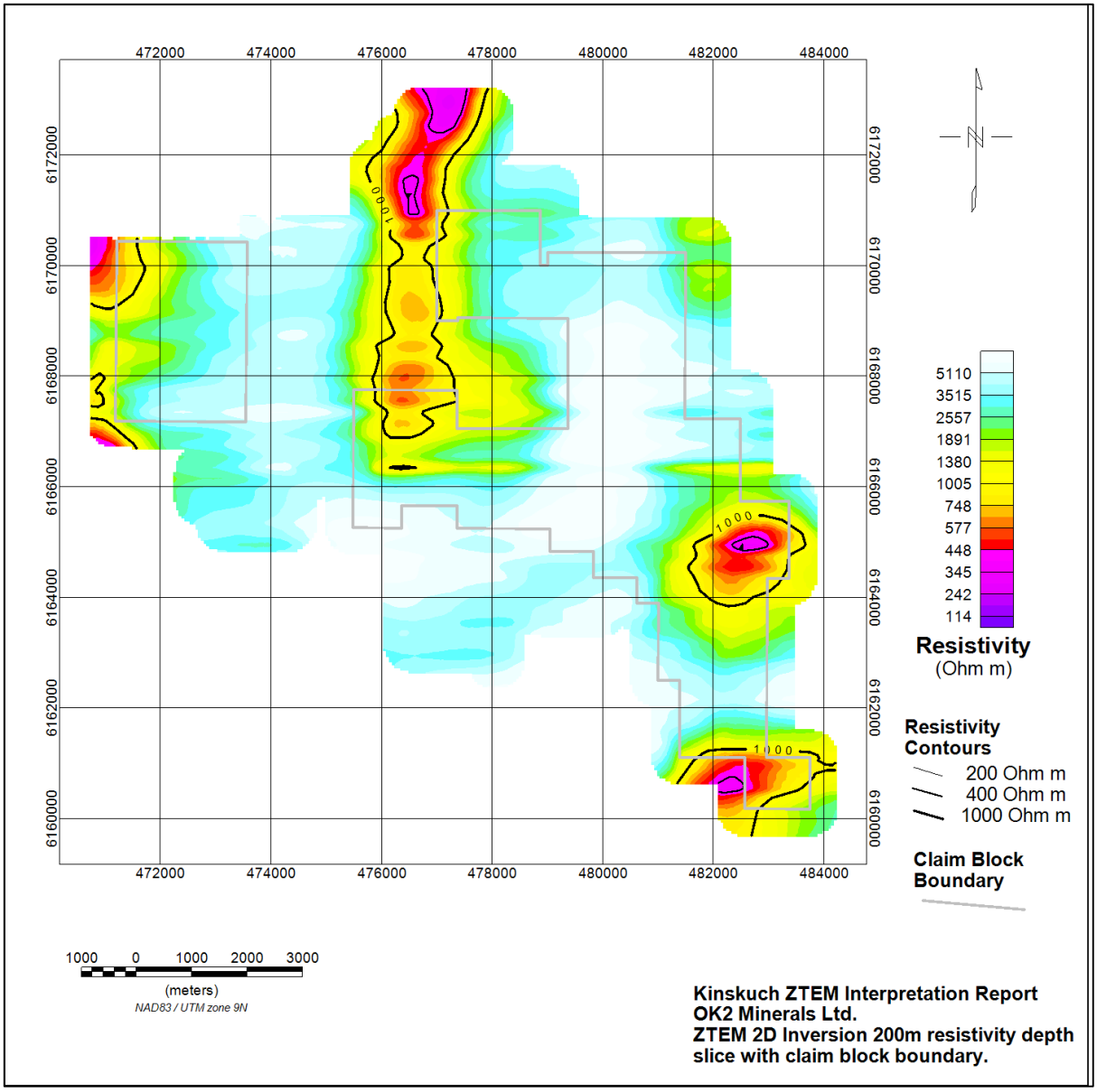

Figure 12. ZTEM 2D inversion resistivity depth slice at 200m below surface.

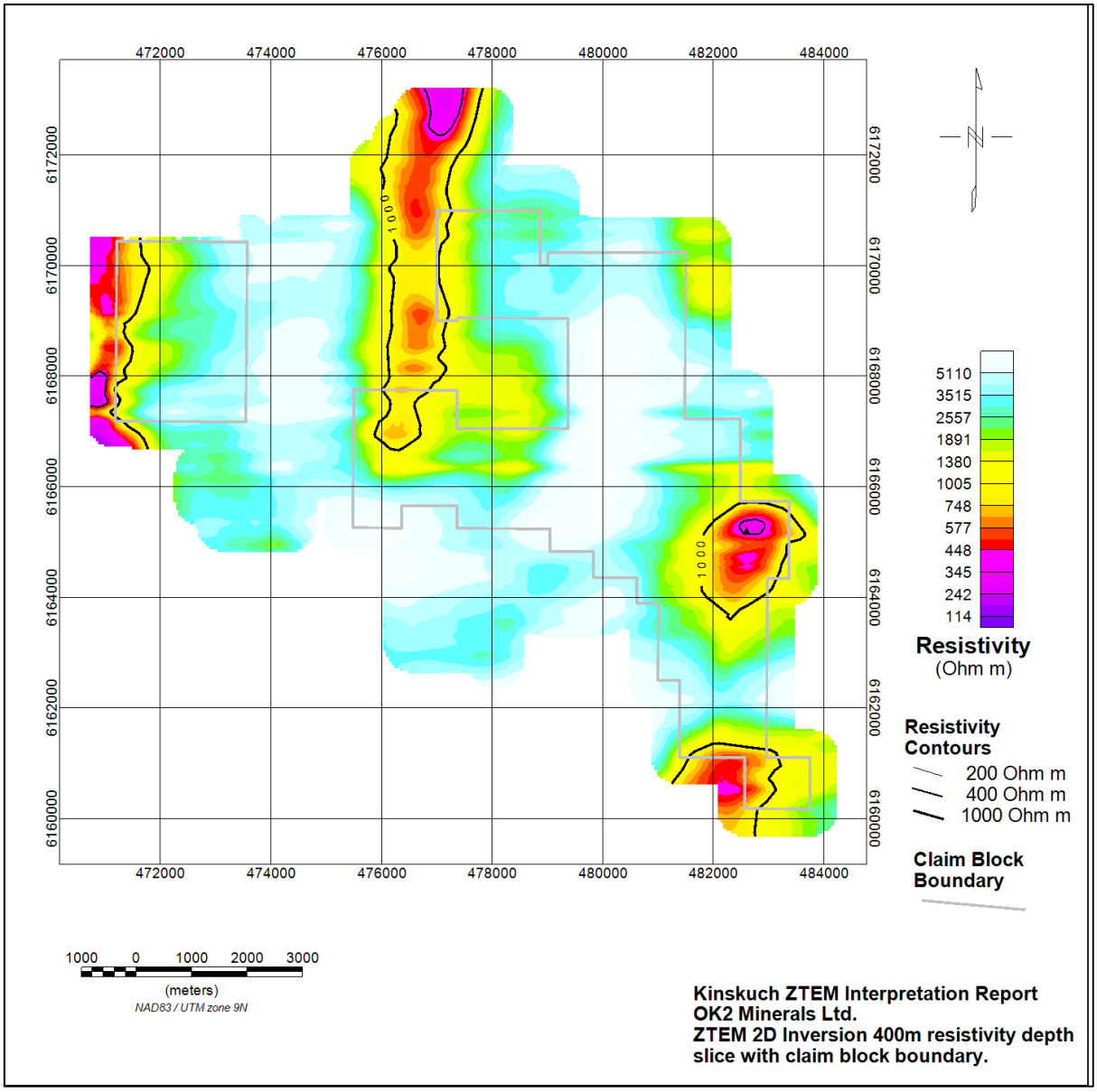

Figure 13. ZTEM 2D inversion resistivity depth slice at 400m below surface.

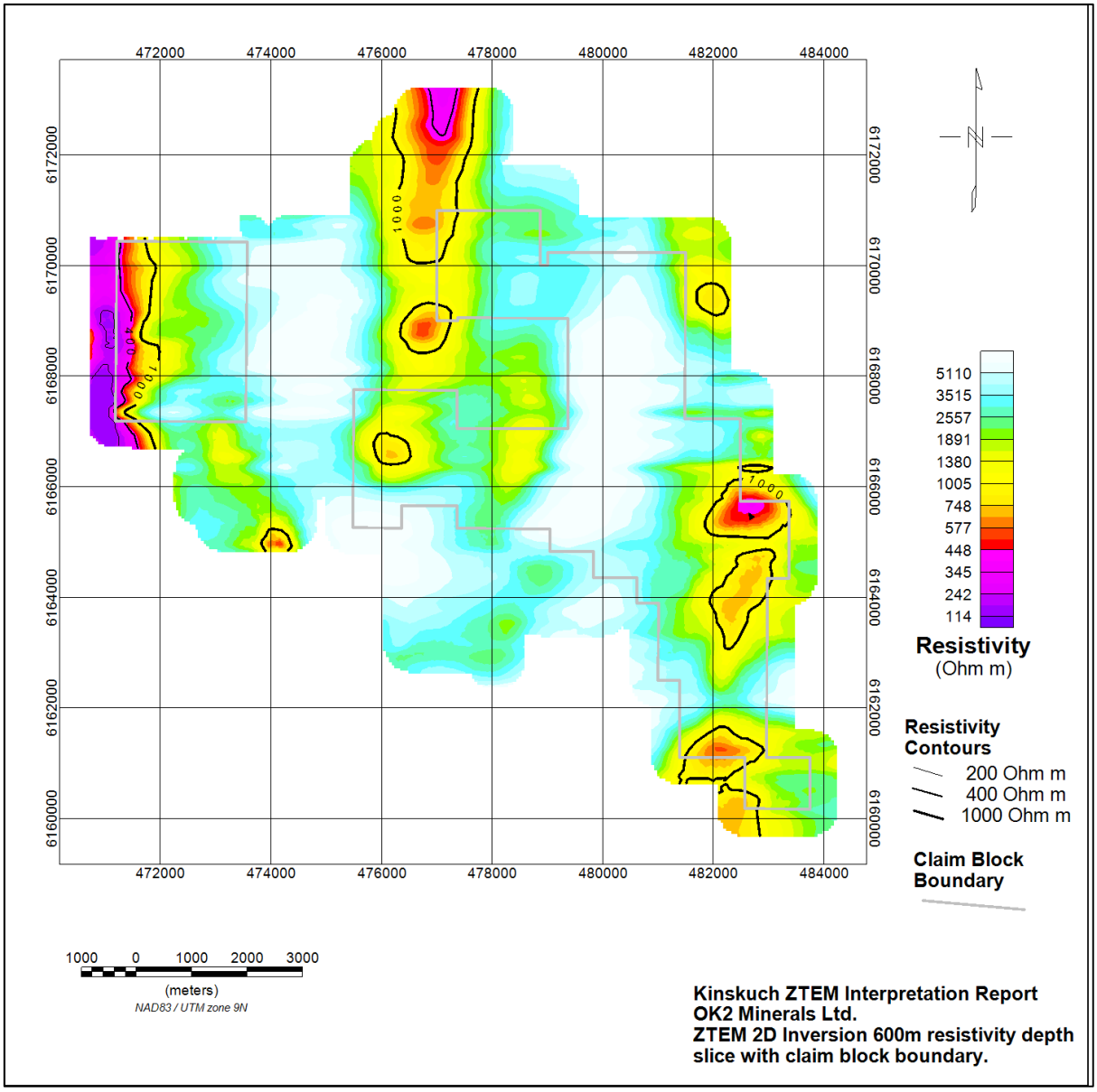

Figure 14. ZTEM 2D inversion resistivity depth slice at 600m below surface.

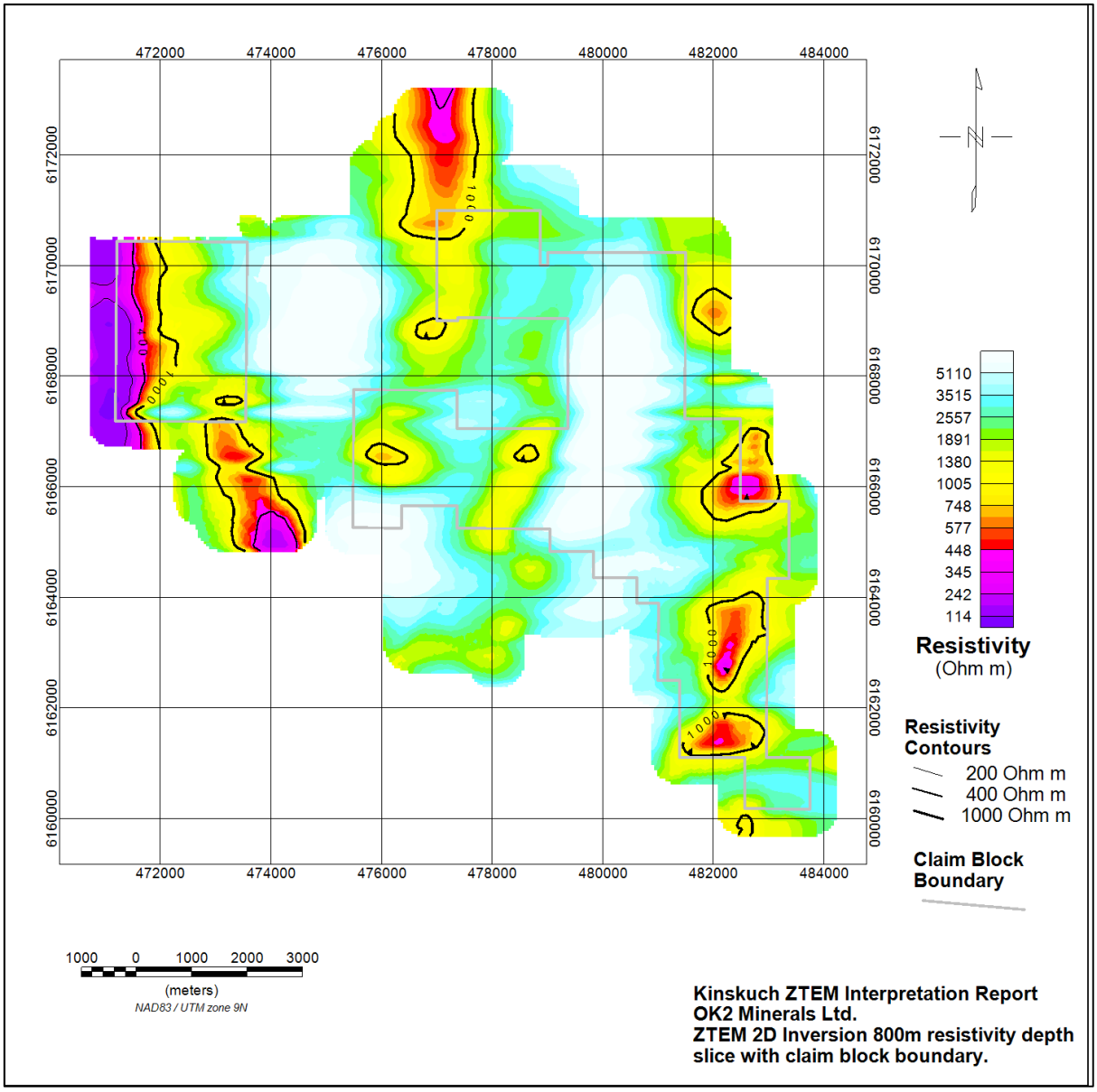

Figure 15. ZTEM 2D inversion resistivity depth slice at 800m below surface.

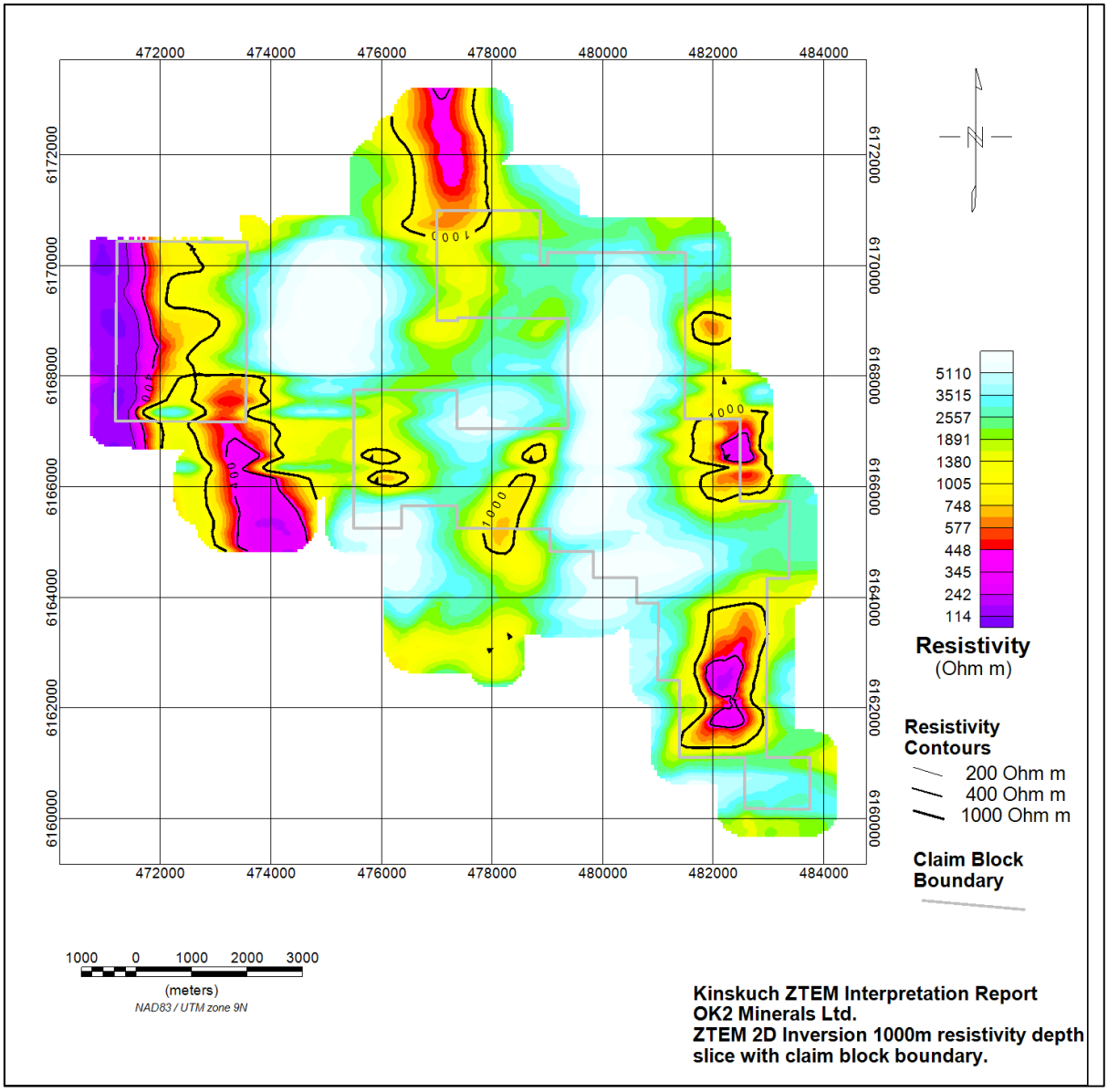

Figure 16. ZTEM 2D inversion resistivity depth slice at 1000m below surface.

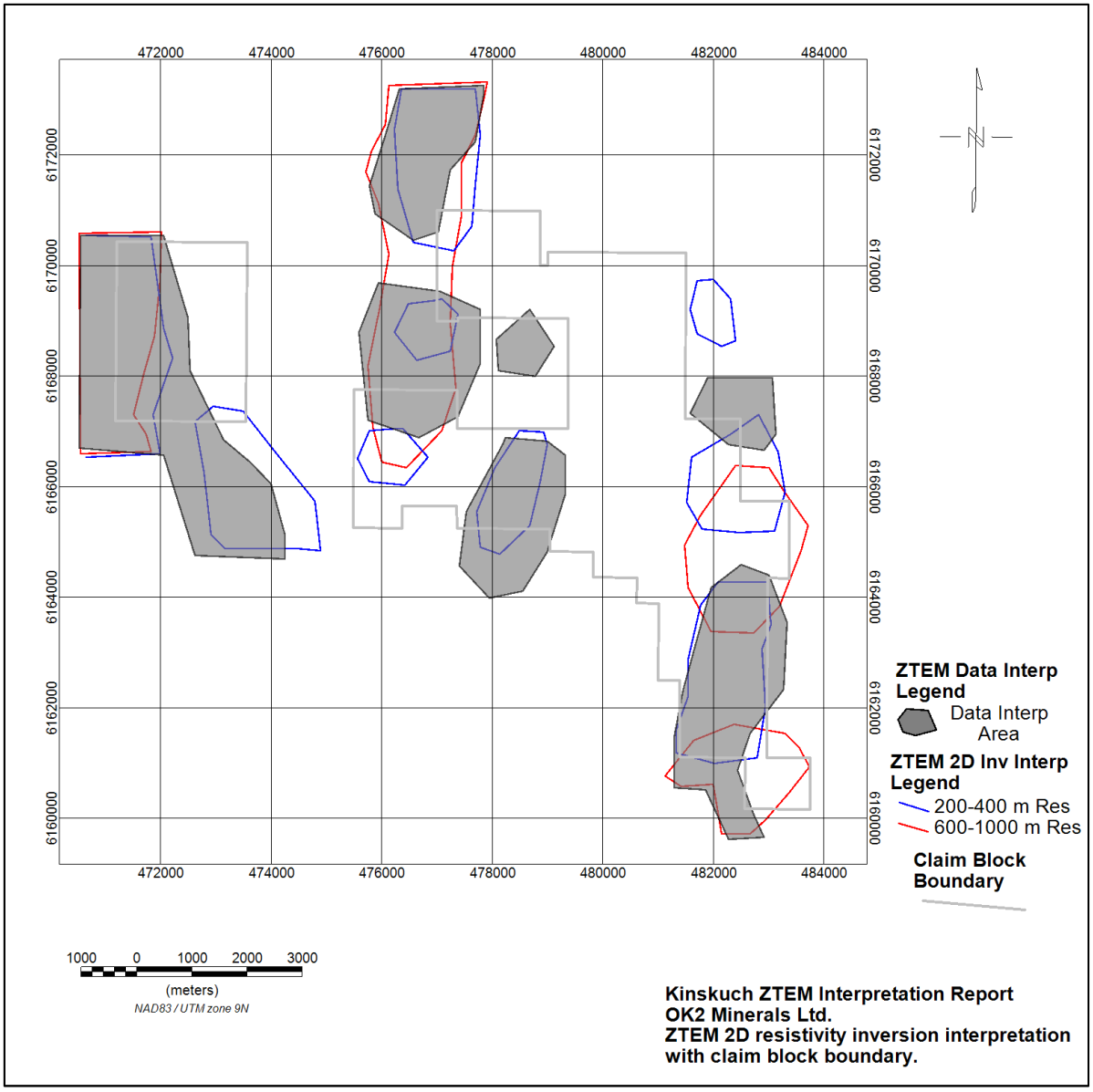

Figure 17. ZTEM 2D inversion interpretation.

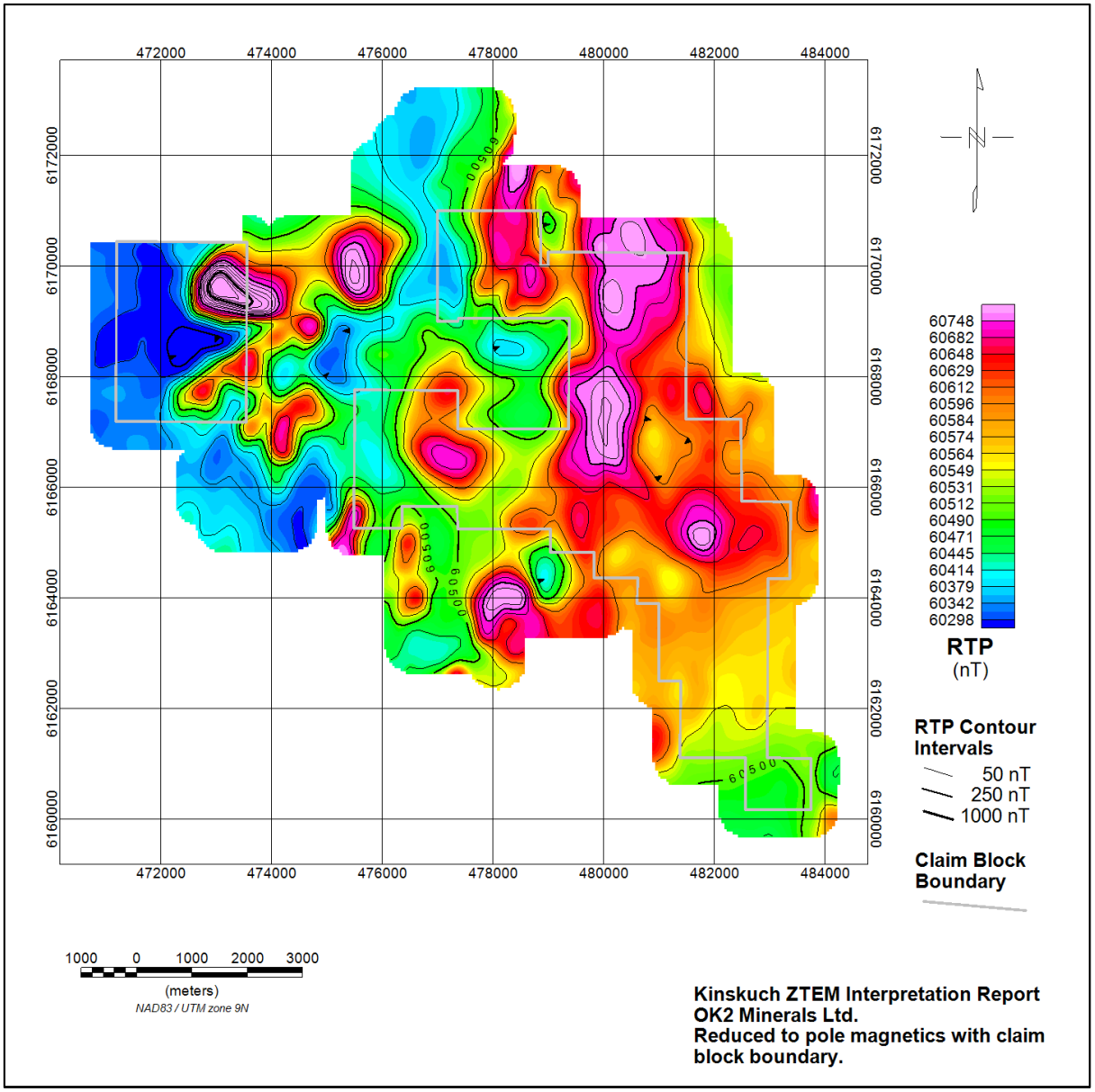

Figure 18. Reduced to pole magentics. The data was upward continued by 50 m prior to pole reduction.

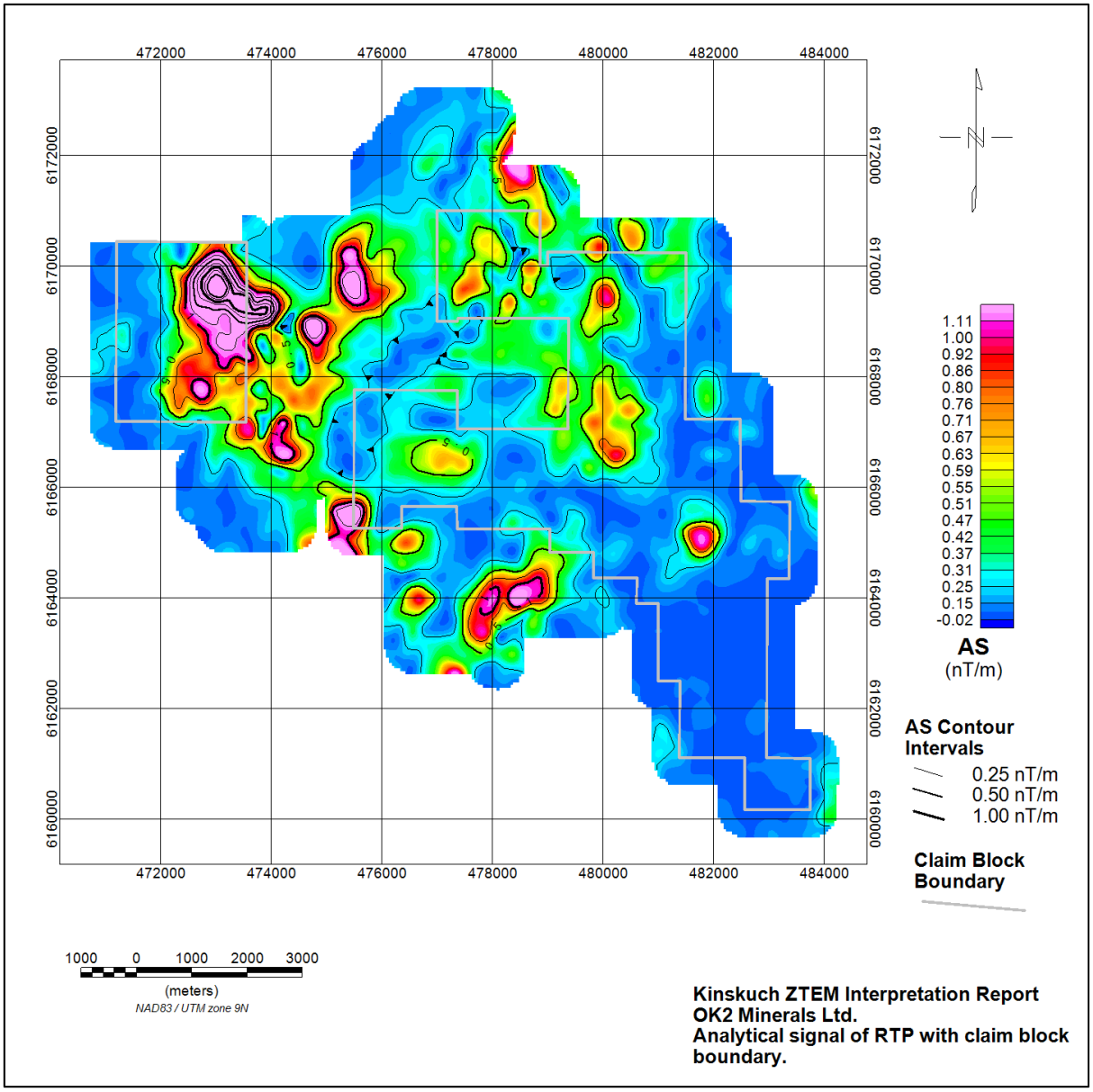

Figure 19. Analytical signal of reduced to pole magnetics. The data was upward continued by 50 m prior to pole reduction.

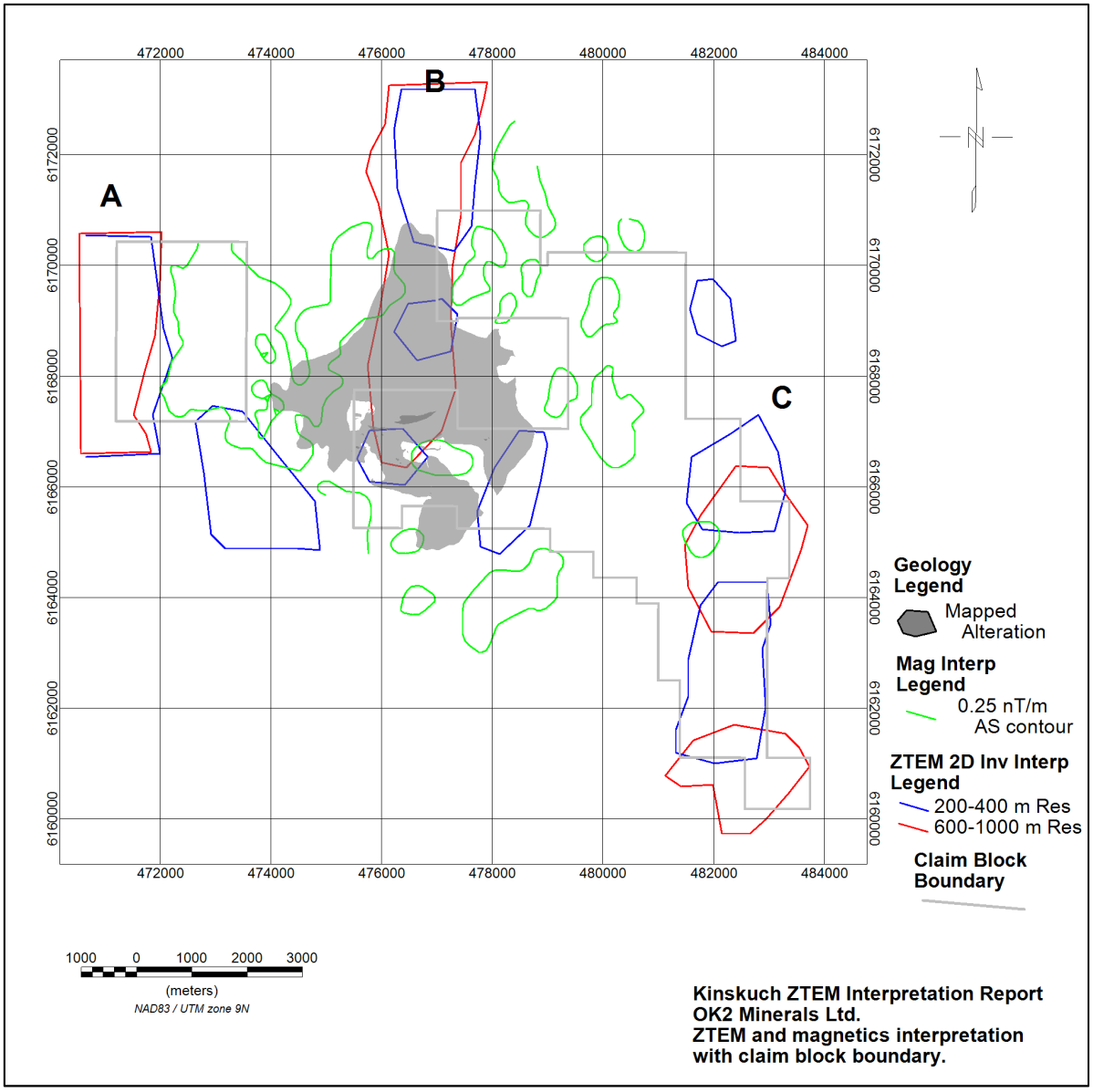

Figure 20. ZTEM 2D inversion and magnetics interpretation. The letters A, B and C denote the interpreted north-south low resistivity trends.