NI 43-101
RESOURCE ESTIMATE
FOR THE
WHISTLER PROJECT



South Central Alaska
Centred at 6,872,000 N and 520,000 E (NAD 83)

Submitted to:
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15 August 2015

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DATE & SIGNATURE PAGES

Herewith, our report entitled "NI 43-101 Resource Estimate for the Whistler Project" with an effective date of 15 August 2015.

"Signed and Sealed"

Signature of Robert J. Morris
M.Sc., P.Geo.

Dated 15 August 2015

Moose Mountain Technical Services
Principal Geologist

"Signed and Sealed"

Signature of Susan C. Bird
P.Eng.

Dated 15 August 2015

Moose Mountain Technical Services
Principal Engineer

"Signed and Sealed"

Signature of Alan Riles
B.Met., M.AIG.

Dated 15 August 2015

Riles Integrated Resource Management Pty Ltd
Geometallurgist

CERTIFICATE & DATE – Susan C. Bird

I, Susan C. Bird, P.Eng., do hereby certify that:

1. I am a Principal Geologic Engineer with Moose Mountain Technical Services with a business address of 1752 Armstrong Ave., Victoria, B.C. V8R 5S6, Canada
2. I graduated with a Geologic Engineering degree (B.Sc.) from the Queen's University in 1989 and I graduated with a M.Sc. in Mining from Queen's University in 1993.
3. I have worked as an engineering geologist for a total of 18 years since my graduation from university. Relevant experience for the purposes of this Technical Report includes:
    - QP for the resource of copper projects including Desert Fox's Van Dyke project, for Santa Fe's Summit project, for Columbia Yukon's Stories deposit, and for Augusta's Rosemont deposit among others.
    - Geologic modelling, QA/QC, resource and reserve estimation for several other copper/gold deposits in the Americas.
    - Geologic Modelling and resource estimation of complex coal deposits including at the Elkview mine while working for Tech in the Elk Valley of south-eastern B.C.
4. I am a member in good standing of the Association of Professional Engineers and Geoscientists of B.C. (No. 25007).
5. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfil the requirements to be a "qualified person" for the purpose of NI 43-101.
6. I am responsible for Section 14, and portions relating to the resource model of Sections 1, and 26 of the Technical Report "NI 43-101 Resource Estimate for the Whistler Project" dated 15 of August 2015.
7. I have not visited the Whistler Project.
8. Neither I, nor any affiliated entity of mine, is at present, under an agreement, arrangement or understanding expects to become, an insider, associate, affiliated entity or employee of Brazil Resources Inc., or any associated or affiliated entities.
9. Neither I, nor any affiliated entity of mine, own, directly or indirectly, nor expect to receive, any interest in the properties or securities of Brazil Resources Inc., or any associated or affiliated companies.
10. Neither I, nor any affiliated entity of mine, have earned the majority of our income during the preceding three years from Brazil Resources Inc., or any associated or affiliated companies.
11. I am independent of the Issuer applying the test set out in Section 1.5 of NI 43-101.
12. I have had no prior involvement with the property that is subject of the Technical Report.
13. I have read NI 43-101 and Form 43-101F1, and confirm that the Technical Report has been prepared in compliance with that instrument and form.
14. As of the date of this certificate, to the best of my knowledge, information and belief, the Technical Report contains all the scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Dated this 15th day of August 2015

"Signed and Sealed"

_____

Susan C. Bird, P.Eng

CERTIFICATE & DATE – Robert J. Morris

I, Robert J. Morris, M.Sc., P.Geo., do hereby certify that:

1) I am a Principal of Moose Mountain Technical Services, 6243 Kubinec Road, Fernie BC V0B 1M1.
2) I graduated with a B.Sc. from the University of British Columbia in 1973.
3) I graduated with a M.Sc. from Queen's University in 1978.
4) I am a member of the Association of Professional Engineers and Geoscientists of B.C. (#18301).
5) I have worked as a geologist for over forty years since my graduation from university.
6) My past experience with gold-copper exploration and mining includes work on Galore Creek, Kemess North, Huckleberry, QB in Chile, and Petaquilla in Panama.
7) I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfil the requirements to be a "qualified person" for the purpose of NI 43-101.
8) I am responsible for the entire technical report entitled "NI 43-101 Resource Estimate for the Whistler Project", dated 15 August 2015, except Sections 13, 14, 17, & 19.
9) I completed a site visit of the property 13 and 14 September 2010. I have had no prior involvement with the Whistler Project.
10) I am independent of Brazil Resources Inc., and work as a geological consultant to the mining industry.
11) I am independent of the Issuer applying the test set out in Section 1.5 of NI 43-101.
12) I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose, which makes the Technical Report misleading.
13) I have read NI 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
14) I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their websites accessible by the public.

Date this 15th day of August 2015

"Signed and Sealed"

_____

Robert J. Morris, M.Sc., P.Geo.

CERTIFICATE & DATE – Alan Riles

I, Alan Riles, M.Met., M.AIG., do hereby certify that:

1) I am a Director and Principal Geometallurgist of Riles Integrated Resource Management Pty Ltd, of 8 Winbourne St., Gorokan NSW 2263 Australia.
2) I graduated with a B.Met. from the University of Sheffield, UK in 1974.
3) I graduated with a Grad.Dip. in Professional Management. from University of Tasmania in 1987.
4) I am a member of the Australian Institute of Geoscientists (#4870).
5) I have worked as a metallurgist for over forty years since my graduation from university.
6) My past experience with gold-copper metallurgy and processing includes work on gold-copper porphyries in US, Mexico, Peru, Romania and Russia as well as other gold-copper projects in Spain and Australia.
7) I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfil the requirements to be a "qualified person" for the purpose of NI 43-101.
8) I am responsible for Sections 13, 17 and 19 (and parts of Sections 1, 25, and 26) in technical report entitled "NI 43-101 Resource Estimate for the Whistler Project", dated 15 August 2015.
9) I completed a site visit of the property September 18th-19th, 2012. I have had no prior involvement with the Whistler Project.
10) I am independent of Brazil Resources Inc., and work as a metallurgical consultant to the mining industry.
11) I am independent of the Issuer applying the test set out in Section 1.5 of NI 43-101.
12) I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose, which makes the Technical Report misleading.
13) I have read NI 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
14) I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their websites accessible by the public.

Date this 15th day of August 2015

"Signed and Sealed"

_____

Alan Riles, B.Met., M.AIG.

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1.0 Summary

The Whistler Project is a gold-copper exploration project located in the Yentna Mining District of Alaska, approximately 150km northwest of Anchorage. Moose Mountain Technical Services (MMTS) was commissioned by Brazil Resources Inc. (BRI) to complete a resource estimate for Whistler and to report on the exploration results over the entire property.

The Whistler Project comprises 304 State of Alaska mining claims covering an aggregate area of approximately 172km^2. The center of the property is located at 152.566° longitude west and 61.983° latitude north. The project is located in the drainage of the Skwentna River. Elevation varies from about 400m above sea level in the valley floors to over 5,000m in the highest peaks resulting in quite a spectacular landscape. A base camp and gravel airstrip for wheel-based aircraft is established adjacent to the Skwentna River. The fifty-person camp is equipped with diesel generators, a satellite communication link, tent structures on wooden floors and several wood-frame buildings. Although chiefly used for summer field programs, the camp is winterized.

Rights to the Whistler Project were acquired by BRI in August 2015 pursuant to an Asset Purchase Agreement (the Asset Purchase) with Kiska Metals Corporation (Kiska) in exchange for the issuance of 3,500,000 common shares in the capital of BRI as disclosed by news releases on July 21 and August 6, 2015. The project is subject to three underlying agreements.

The first underlying agreement is a Royalty Purchase Agreement between Kiska, Geoinformatics Alaska Exploration Inc. and MF2, LLC, dated December 16, 2014. This agreement grants MF2 a 2.75 percent NSR royalty over all 304 claims, and extending outside the current claims over an Area of Interest defined by the maximum historical extent of claims held on the project. BRI can purchase 0.75 percent of the NSR royalty for a payment of US$5,000,000 to MF2, LLC.

The second underlying agreement is an earlier agreement between Cominco American Incorporated and Mr. Kent Turner dated October 1, 1999. This agreement concerns a 2.0 percent net profit interest held by Teck Resources in connection with an Area of Interest specified by standard township sub-division as indicated in Figure 4-2.

The third underlying agreement is a Purchase and Sale agreement between Kent Turner, Kiska Metals Corporation and Geoinformatics Alaska Exploration Inc., dated December 16, 2014 that terminates the "Turner Agreement" (an agreement that grants Kennecott and its successors a 30-year lease on twenty-five unpatented State of Alaska Claims) and transfers to Kiska and Geoinformatics, and their successors, an undivided 100 percent of the legal and beneficial interest in, under, to, and respecting the Turner Property free and clear of all Encumbrances arising by, through or under Turner other than the Cominco American net profit interest.

Mineral exploration in the Whistler area was initiated by Cominco Alaska in 1986, and continued through 1989. During this period, the Whistler and the Island Mountain gold-copper porphyry occurrences were discovered and partially tested by drilling. In 1990, Cominco's interest waned and all cores from the Whistler region were donated to the State of Alaska. The property was allowed to lapse.

In 1999, Kent Turner staked twenty-five State of Alaska mining claims at Whistler and leased the property to Kennecott. From 2004 through 2006 Kennecott conducted extensive exploration of Whistler region, including geological mapping, soil, rock and stream sediments sampling, ground induced polarization, the evaluation of the Whistler gold-copper occurrence with fifteen core boreholes (7,948m) and reconnaissance core drilling at other targets in the Whistler region (4,184m). Over that period Kennecott invested over USD$6.3 million in exploration.

From 2007 through 2008, Geoinformatics drilled twelve holes for 5,784 metres on the Whistler Deposit and six holes for 1,841 metres on other exploration targets in the Whistler area. Drilling by Geoinformatics on the Whistler deposit was done to infill the deposit to sections spaced at seventy-five metres and to test for the north and south extensions of the deposit. Exploration drilling by Geoinformatics in the Whistler area targeted geophysical anomalies in the Raintree and Rainmaker areas, using the same basic porphyry exploration model as Kennecott.

Kiska was formed in 2009 by the merger of Geoinformatics Exploration Inc. and Rimfire Minerals Corporation in order to advance exploration on the Whistler Project. The rights to the property were acquired by Geoinformatics from Kennecott Exploration ("Kennecott") in 2007 subject to exploration expenditures totalling a minimum of USD$5.0 million over two years, two underlying agreements, and certain back-in rights retained by Kennecott to acquire up to sixty percent of the project. In September 2010, Kennecott's back-in right was extinguished after the completion and review of a geophysical and drilling program (the "Trigger Program") whose technical direction was guided by Kiska and Kennecott. From that time forward, Kiska continued to explore the project and completed a total of 48,447 metres of drilling, several large geophysical surveys, and an updated Whistler Deposit resource estimate, for a total expenditure of USD$29.4M. Kiska's primary objective was to explore the entire project area and test porphyry targets other than the Whistler Deposit, including Raintree West and the Island Mountain Breccia Zone.

Alaskan geology consists of a collage of various terrains that were accreted to the western margin of North America as a result of complex plate interactions through most of the Phanerozoic. The southernmost Pacific margin is underlain by the Chugach–Prince William composite terrain, a Mesozoic-Cenozoic accretionary prism developed seaward from the Wrangellia composite terrain. It comprises arc batholiths and associated volcanic rocks of Jurassic, Cretaceous, and early Tertiary age.

The Alaska Range represents a long-lived continental arc characterized by multiple magmatic events ranging in age from about 70 million years ("Ma") to 30Ma and associated with a wide range of base and precious metals hydrothermal sulphide bearing mineralization. The geology of Whistler Project is characterized by a thick succession of Cretaceous to early Tertiary (ca. 97 to 65Ma) volcano-sedimentary rocks intruded by a diverse suite of plutonic rocks of Jurassic to mid-Tertiary age.

Two main intrusive suites are important in the Whistler Project area.

1) The Whistler Igneous Suite comprises alkali-calcic basalt-andesite, diorite and monzonite intrusive rocks approximately 76Ma with restricted extrusive equivalent. These intrusions are commonly associated with gold-copper porphyry-style mineralization (Whistler deposit).

2) The Composite Suite intrusions vary in composition from peridotite to granite and their ages span from 67 to about 64Ma. Gold-copper veinlets and pegmatitic occurrences are characteristics of the Composite plutons (e.g. the Mt. Estelle prospect, the Muddy Creek prospect).

The Whistler Project was acquired by BRI for its potential to host magmatic hydrothermal gold and copper mineralization. Magmatic hydrothermal deposits represent a wide clan of mineral deposits formed by the circulation of hydrothermal fluids into fractured rocks and associated with the intrusion of magma into the crust. Exploration work completed by Kennecott, Geoinformatics, and Kiska has discovered several gold-copper sulphide occurrences exhibiting characteristics indicative of magmatic hydrothermal processes and suggesting that the project area is generally highly prospective for porphyry gold-copper deposits.

The Whistler gold-copper deposit is the most important style of exploration target on the Whistler Project. Drilling by Cominco, Kennecott and Kiska was successful in delineating gold-copper sulphide mineralization associated with at least three diorite porphyry intrusive phases. The oldest phase exhibits the best gold-copper mineralization, while the intermediate and youngest is moderately to weakly mineralized, respectively. On surface, the gold-copper mineralization extends over an area measuring 750m by 500m and from the surface to depths ranging between 200m and 750m.

There is little information available for the sampling procedures used by Cominco Alaska. However, survey locations for most of the collars have been verified by Kennecott. Additionally, the assayed grades for Au, Cu, and Ag have been compared to the assays of subsequent drilling, indicating no material bias in the Cominco values.

Kennecott used industry best practices to collect, handle and assay soil, rock and core samples collected during the period 2004-2006. The procedures are documented in detailed manuals describing all aspects of the exploration data collection and management. All assay samples were prepared by the Alaska Assay Laboratory, in Fairbanks, Alaska and assayed at either the Alaska Assay Laboratory (2004) or the accredited ALS-Chemex laboratory in Vancouver, British Columbia. Samples were assayed for gold by conventional fire assay and a suite of elements including the usual metals by aqua regia digestion and inductively coupled plasma atomic emission spectroscopy. Kennecott used industry best practices quality control measures during its exploration at Whistler.

Kiska used the procedures developed by Kennecott for this project.

MMTS visited the Whistler Project on September 13 and 14, 2010 while active drilling was ongoing. The purpose of the site visit was to inspect and ascertain the geological setting of the Whistler Project, witness the extent of historical exploration work carried out on the property and assess logistical aspects and other constraints relating to conducting exploration work in this area. No further drilling has been completed on the Whistler Deposit specifically since 2010; therefore there has been no material change to the deposit since the stated site visit.

MMTS conducted a series of routine verifications to ensure the reliability of the electronic data provided by Kiska, and believes the electronic data are reliable. MMTS visually examined assaying quality control data produced by Kiska and believes these data are reliable for resource estimation.

The mineral resource model presented herein represents an updated estimate for the Whistler gold-copper deposit in the name of BRI and is based largely on the historic resource estimate completed by MMTS for Kiska as documented in the NI 43-101 Technical report with an effective date of March 17, 2011; no new sampling or drilling has been completed on the Whistler deposit since March 17, 2011. The first resource estimate on the project was completed by SRK with an effective date of December 31, 2007.

The Whistler deposit is a structurally controlled porphyry deposit with Au, Cu and Ag as the primary economic metals. There are at least three intrusive phases recognized at the Whistler deposit, the earliest, Main Stage Porphyry (MSP), being that of principal mineralization. A major northwest trending fault (the Divide Fault) is used to segregate the mineralization into two domains prior to grade interpolation. There is some evidence that lateral offsets of as much as 100m may have occurred along this fault.

Statistical analyses (cumulative probability plots, histograms, classic statistical values) of the assay data are used to confirm the domain selection, to decide if capping is necessary, and to determine the extent of non-mineralized zones within the diorite solid. Assay data was composited into 5m intervals, honoring the domain boundaries, with composite statistics also compiled for comparisons. The composites are then used to create relative variograms for Au, Cu, and Ag grades using the MSDA module of the MineSight® software, thus establishing rotation and search parameters for the block model interpolation.

Validation of the model is completed by comparison of the block values with de-clustered composite values, with values interpolated by inverse distance, by the use of swath plots, as well by a visual inspection in section and plan across the project area.

Specific gravity values are based on 21 measurements by ALS Chemex to give an average density of 2.72 for ore, and 2.60 for waste.

The resource has been interpolated and classified based on variogram modeling using the search parameters as defined below.

Table 1-1 Summary of Search Parameters for Interpolation and Classification of the Resource

Search Parameter	Pass 1	Pass 2
Resource Classification	Indicated	Inferred
Search distance	½ Range	Range
Minimum # comps	4	3
Maximum # comps	9	9
Maximum # Comps/Hole	3	2
Max # Comps / Split Quadrant	6	7

Classification is based on the variogram parameters, and restrictions on the number of composites and drillholes used in each pass of the interpolation, as indicated in Table 1-1. The definition of Indicated and Inferred used to classify the resource is in accordance with that of the CIM Definition Standards (CIM, 2014).

The pit delineated resource is given in Table 1-2, for a range of NSR cut-offs with the base case cut-off of $7.50/tonne highlighted. Process recoveries, as well as mining, processing and off site costs have been applied in order to determine that the pit resource has a reasonable prospect of economic extraction. The $7.50/tonne cut-off (an Au Equivalent grade of approximately 0.3 gpt at the base case prices) yields an Indicated resource of 79.2 Mtonnes at 0.51 gpt gold, 0.17% copper and 1.97 gpt silver (2.25 Moz Au Eqv.) and an Inferred resource of 145.8 Mtonnes at 0.40 gpt gold, 0.15% copper and 1.75 gpt silver (3.35 Moz Au Eqv). The mining, processing and off site costs used here are estimates and may not represent actual costs.

There are no known significant environmental, permitting, legal, title, taxation, socio-economic, marketing, political, or other factors that could materially affect the resource estimate.

Table 1-2 Summary of Pit Delineated Resource[1], Whistler Deposit

Class	NSR[2] Cut-off ($/tonne)	Tonnes (Mt)	In situ Grades				Total Modelled Metal		
			NSR ($/tonne)	Au (gpt)	Cu (%)	Ag (gpt)	Gold (Moz)	Silver (Moz)	Copper (Mlbs)
Indicated	7.50	79.2	21.95	0.51	0.17	1.97	1.28	5.03	302
	10.00	69.8	23.77	0.56	0.18	2.06	1.24	4.61	282
	12.50	60.7	25.64	0.61	0.19	2.13	1.19	4.15	259
	15.00	51.7	27.72	0.67	0.20	2.19	1.12	3.63	232
	17.50	43.3	29.95	0.74	0.21	2.26	1.03	3.14	203
	20.00	35.6	32.36	0.82	0.22	2.35	0.94	2.68	176
	22.50	29.6	34.65	0.89	0.23	2.40	0.85	2.28	152
	25.00	24.0	37.22	0.98	0.24	2.49	0.75	1.91	129
Inferred	7.50	145.8	17.78	0.40	0.15	1.75	1.85	8.21	467
	10.00	123.1	19.56	0.45	0.16	1.83	1.76	7.23	423
	12.50	100.1	21.48	0.50	0.17	1.91	1.61	6.13	365
	15.00	79.0	23.55	0.57	0.18	1.98	1.43	5.00	306
	17.50	59.0	26.03	0.64	0.19	2.10	1.21	3.98	243
	20.00	43.1	28.74	0.73	0.20	2.25	1.01	3.11	188
	22.50	31.6	31.50	0.82	0.21	2.35	0.83	2.38	146
	25.00	23.0	34.41	0.91	0.22	2.47	0.67	1.82	112

1. Reported within a conceptual pit shell (45 degree pit slope angle) and based on a cut-off grade of $7.5/t adjusted for metallurgical recovery and offsite costs.
2. NSPs used to define the resource are based on 75 percent recovery for gold and silver; 85 percent recovery for copper; USD$990 per ounce gold, USD$15.40 per ounce silver and USD$2.91 per pound of copper and an exchange rate of 0.92 $US/$CDN.

Exploration potential exists adjacent to the base case pit resource in the north, west and south directions as well as at depth. This is illustrated in Figure 1-1 which shows the base case open pit and all modelled blocks above a Au Eqv. grade of 0.5 gpt. The total modelled potential, inclusive of the pit delineated resource is summarized in Table 1-3; with the base case Au Eqv. grade as 0.30 gpt highlighted in the table.

Table 1-3 Exploration Potential - Summary of Total Block Model Material by Au Eqv. Grade

Class	Gold Eqv. Cut-off (gpt)	Tonnes (Mt)	In situ Grades				Total Modelled Metal			
			Au (gpt)	Cu (%)	Ag (gpt)	Au Eqv. [1] (gpt)	Gold (Moz)	Silver (Moz)	Copper (Mlbs)	Au Eqv. [1] (Moz)
Indicated	0.30	90.1	0.47	0.17	1.89	0.84	1.37	5.46	330	2.42
	0.40	76.1	0.54	0.18	2.00	0.93	1.31	4.87	300	2.26
	0.50	64.6	0.60	0.19	2.09	1.01	1.24	4.32	271	2.10
	0.60	54.1	0.67	0.20	2.16	1.10	1.16	3.75	240	1.91
	0.70	44.9	0.74	0.21	2.23	1.20	1.06	3.21	209	1.72
	0.80	36.9	0.81	0.22	2.33	1.29	0.96	2.75	180	1.53
	0.90	30.6	0.89	0.23	2.39	1.39	0.87	2.35	156	1.36
	1.00	24.8	0.97	0.24	2.48	1.49	0.77	1.97	132	1.18
Inferred	0.30	221.2	0.34	0.13	1.61	0.64	2.43	11.39	650	4.51
	0.40	165.0	0.41	0.15	1.71	0.74	2.18	9.04	536	3.89
	0.50	123.9	0.48	0.16	1.81	0.83	1.91	7.18	435	3.30
	0.60	92.5	0.55	0.17	1.89	0.93	1.65	5.61	348	2.75
	0.70	67.7	0.63	0.18	2.01	1.03	1.38	4.35	271	2.23
	0.80	49.2	0.72	0.19	2.15	1.14	1.13	3.38	208	1.79
	0.90	35.4	0.81	0.20	2.28	1.25	0.92	2.59	158	1.42
	1.00	25.5	0.90	0.21	2.42	1.37	0.73	1.97	120	1.11

1. Gold equivalent grades are in situ using the same prices as for the NSP calculation but reporting at 100% recoveries.

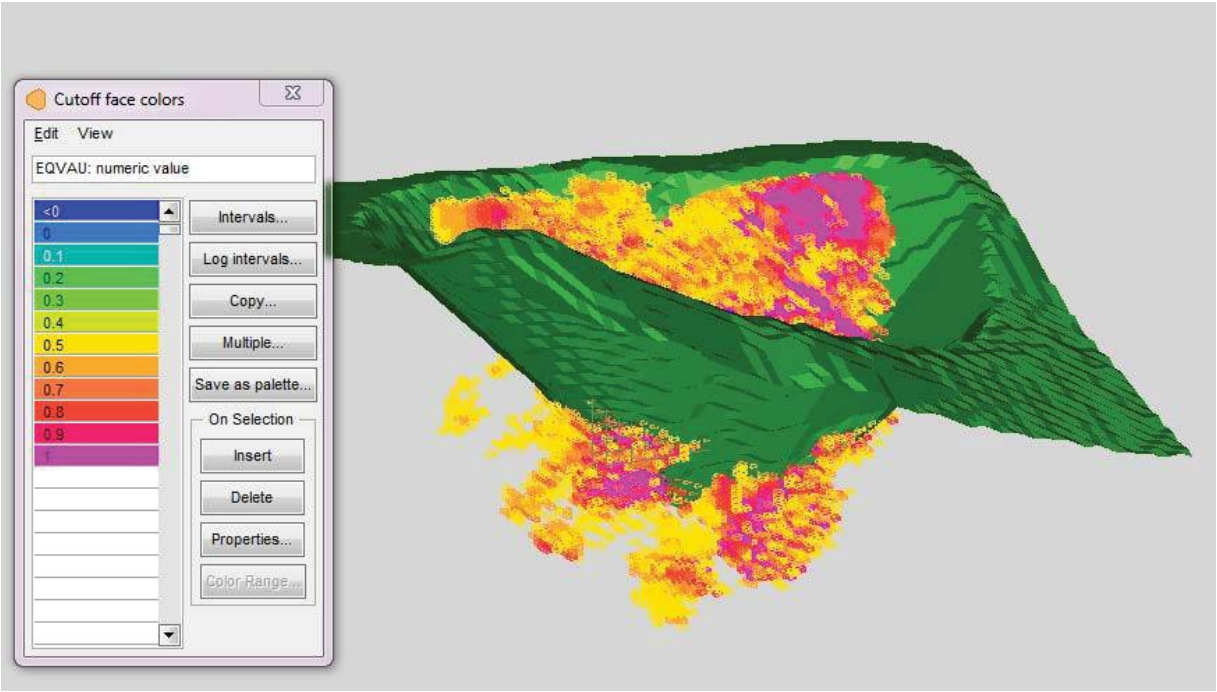


Figure 1-1 3D View looking N25E– Modelled Blocks within and Adjacent to Base Case Pit above a 0.5 gpt Au Eqv. Cut-off

Property-wide exploration drilling has identified significant areas of porphyry gold-copper mineralization outside of the Whistler deposit (the Raintree West prospect in the Whistler area and the Breccia Zone in the Island Mountain area). In addition, exploration drilling, property-wide airborne magnetic surveys and extensive Induced Polarization ground surveys have identified multiple porphyry prospects that warrant initial or further drill testing (Rainmaker, Raintree North, Round Mountain, Puntilla, Snow Ridge, Dagwood, Howell Zone, Super Conductor). The Muddy Creek area, underlain by the 65Ma Composite Suite of intrusions, is geologically younger that the Whistler area, and represents a prospective area for Intrusion-Related gold mineralization.

The Raintree West prospect is located 1800 metres to the east of the Whistler deposit, just off the eastern flank of Whistler Ridge. Outside of the Whistler deposit, Raintree West is currently the most advanced prospect in the Whistler Area on the basis of drill metres, with a total of 8538 metres since the original discovery hole drilled by Geoinformatics in 2008 (RN-08-06: 160 metres grading 0.59 gpt gold, 6.02 gpt silver, 0.10% copper, 0.20% lead, and 0.46% zinc). Further drilling has identified a shallow and deep zone of porphyry mineralization at Raintree West. The near surface porphyry mineralization is coincident with a northwest-elongate airborne magnetic high anomaly that measures 250 metres long and 150 metres wide, which pinches to the northwest and southeast. Drilling has intersected this mineralization on two 100 metre-spaced east-west sections (6,871,350mN and 6,871,450mN). The mineralization is closed to the north, and potentially open to the south. Porphyry mineralization here occurs from surface down to a maximum depth of approximately 170 metres, where it is either truncated by post-mineral diorite porphyry intrusions or faulting. The deep zone of mineralization on the west side of the fault has a maximum apparent width and vertical extent of 300 by 300 metres at its

widest (6,871,650mN), is open to depth, and occurs at its shallowest at 470 metres below surface. The mineralization is essentially blind to the airborne magnetic data and the 3D IP due to the limited depth penetration of these techniques. Further drilling is required to determine the full dimensions of mineralization.

The original target at the Island Mountain Breccia Zone is an exposed 75 metre wide by 210 metre long northeast-trending actinolite-magnetite hydrothermal breccia body hosted by diorite porphyry. Gold and copper mineralization within the breccia body is associated with chalcopyrite and pyrrhotite disseminations, whereas gold-only mineralization on the eastern flank of the breccia (Lower Zone mineralization) is associated with disseminated pyrrhotite. In the discovery hole, IM09-001, the breccia body returned 150.0 metres averaging 0.72ppm gold, 2.37ppm silver and 0.16% copper from 44.0 to 194.0 metres, while the Lower Zone returned 106.9 metres averaging 1.22ppm gold, 0.69ppm silver and 0.05% copper from 280.0 to the 386.9 metres. Subsequent step-out drilling from 50 metres centres has shown that Au-Cu mineralization is not restricted to the hydrothermal breccia body, but is also associated with an intrusive breccia 100 metres to the northwest that contains strong K-feldspar-biotite alteration with disseminated chalcopyrite (IM10-013). The association of strong potassic and sodic alteration in both breccia bodies associated with gold and copper mineralization is indicative of the core of a porphyry system. The potential depth extent of these breccias and the occurrence of untested breccia bodies for 800 metres along strike of the original discovery, warrant further drilling. Metallurgical processing of samples from Island Mountain show excellent recovery rates and saleable Cu concentrate grades using conventional processing techniques. The Lower Zone (disseminated Pyrrhotite) composite sample achieved nearly 90% Au recovery through a combination of selective flotation and cyanidation of tailings. The upper composite sample (Actinolite-Magnetite breccia) achieved 75% Au recovery, further modification and optimization can be expected to greatly improve those results. Processing infrastructure contemplated at Whistler, including conventional milling and flotation followed by cyanide leaching of tailings, matches what would be required at Island Mountain based on this early testwork.

Recommendations for further work on the Whistler Project area include:

- Additional geological modelling and mineral domain definition at the Whistler Deposit in order to further determine potential lithological and structural controls on mineralization, with potential updates to the resource estimate.
- The collection of additional specific gravity measurements from existing drillholes at the Whistler Deposit to augment the database.
- Additional in-fill drilling at the Whistler Deposit to upgrade the classification of Inferred to Indicated with 50m drillhole spacing.
- Further geological modelling and mineral domain definition at the Raintree West and Breccia Zone prospects in order to initiate resource estimate studies, in addition to preliminary metallurgical testwork for Raintree West.
- Top-of-bedrock grid drilling in the Whistler area to define new targets and step-out drilling at the Raintree West and Breccia Zone prospects to define the strike and depth extent of mineralization.
- A new and full review of all exploration data, with an outlook to review and rank all targets for further exploration drilling.

2.0 Introduction

Brazil Resources Inc. (BRI) holds the rights to the Whistler gold-copper property in Alaska.

Moose Mountain Technical Services (MMTS) was retained by BRI to complete a resource estimate for Whistler, to recommend an exploration program for the adjacent targets, and to prepare a Technical Report compliant with NI 43-101 (the Instrument) and Form 43-101F1.

The Whistler gold-copper deposit, with a defined resource, is the most advanced target, while there are numerous additional targets on the property worthy of further exploration.

The previous owner of the property, Kiska Metals Corporation (Kiska) completed three years of exploration on the property which includes 181 diamond drillholes, a large 2D and 3D IP survey in the Whistler area, an airborne EM survey at Island Mountain, as well as surface mapping and sampling. Previous exploration on the property, by Kennecott and Geoinformatics, includes geological mapping, stream sediment sampling, soil sampling, airborne magnetic surveys and drilling.

Mr. Robert J. Morris of MMTS conducted a site visit of the property on the 13 and 14 of September 2010. During the site visit, sufficient opportunity was available to examine old drill sites, active drilling, rock exposures, as well as conduct a general overview of the property, and the condition of existing project infrastructure. Based on his experience, qualifications, and review of the site and resulting data, the author, Mr. Morris, is of the opinion that the exploration has been conducted in a professional manner and the quality of data and information produced from the efforts meet or exceed acceptable industry standards. All of the exploration work has been directed or supervised by individuals who are geologists. No new sampling or drilling has been completed on the Whistler deposit since the last historic resource estimate was completed as documented in a Technical Report by MMTS with an effective date of March 17, 2011 (MMTS, 2011).

While actively involved in the preparation of the report, MMTS had no direct involvement or responsibility in the collection of the data and information or any role in the execution or direction of the work programs conducted for the project on the property or elsewhere. Much of the data has undergone thorough scrutiny by project staff as well as certain data verification procedures by MMTS (included in Section 12).

Sources of information are listed in the references, Section 27.

3.0 Reliance on Other Experts

The authors of this Report are the Qualified persons (QPs) for the sections of the Report as outlined in the "Certificate of Qualified Person" within this Report. The information relied upon for this report has therefore been stated by the QPs to conform to NI 43-101.

The QPs have not independently reviewed parts of this report, relating to the legal aspects of the ownership of the mineral claims, rights granted by the Government of Alaska and environmental and political issues, have been prepared or arranged by BRI. While the contents of those parts have been generally reviewed for reasonableness by the QPs of this report, the information and reports on which they are based has not been fully audited by the QPs.

4.0 Property Description and Location

The Whistler Project is located in the Alaska Range approximately 150km northwest of Anchorage. The centre of the property is located at 152.57 degrees longitude west and 61.98 degrees latitude north.

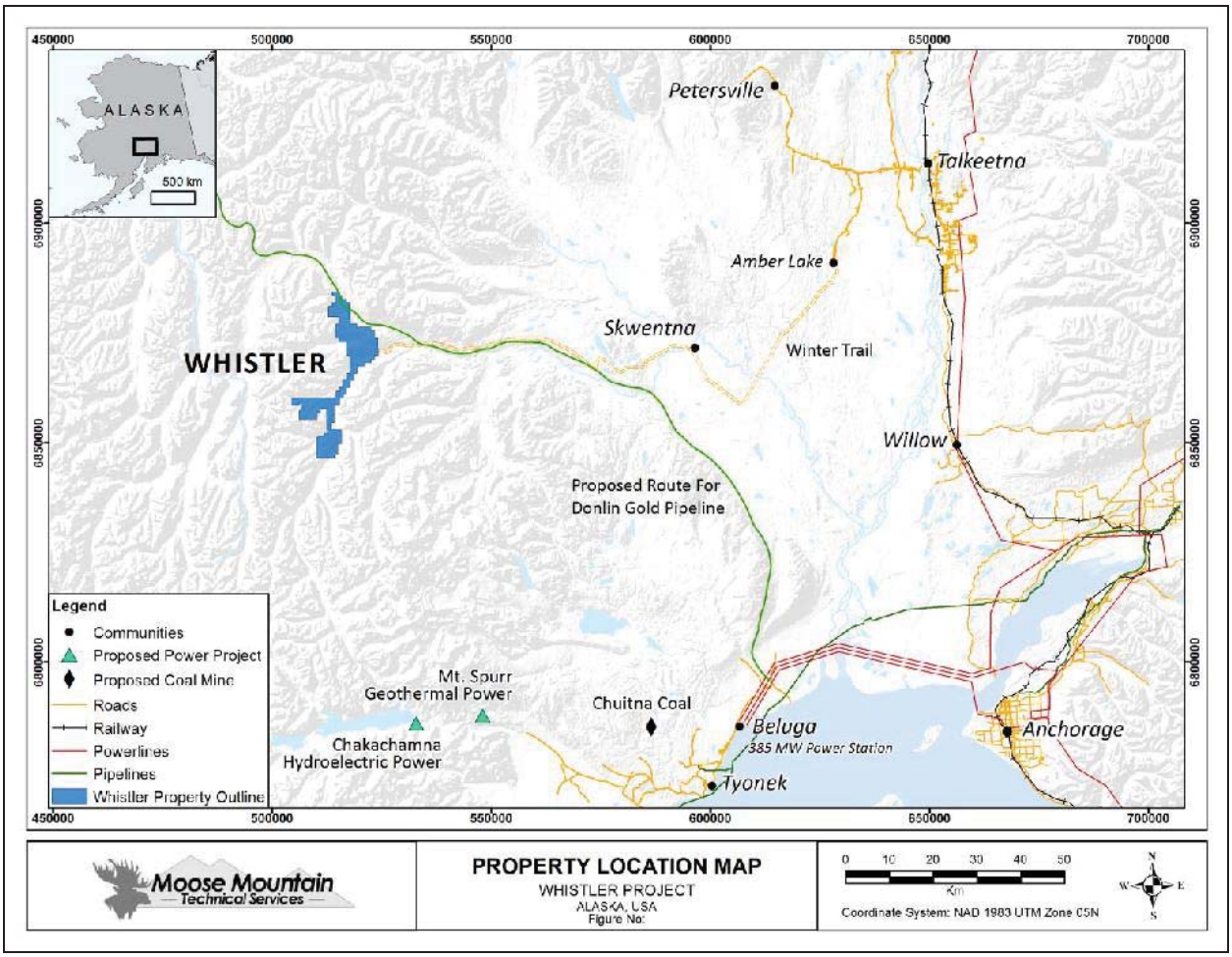


Figure 4-1 Location of the Whistler Project (2015). Modified from Roberts, 2011a.

The Whistler Project comprises 304 State of Alaska mining claims covering an aggregate area of approximately 172km^2 in the Yentna Mining District of Alaska. All of the claims are owned by Brazil Resources Inc. (BRI). The property boundaries have not been legally surveyed.

An all season camp facility exists near the confluence of Portage Creek and the Skwentna River, approximately 15km southeast of the Rainy Pass Hunting Lodge. The camp is serviced with a 1000m gravel airstrip for wheel-based aircrafts. The camp is equipped with diesel generators, a satellite communication link, tent structures on wooden floors and several wood-framed buildings.

BRI's rights to the Whistler Project were acquired in connection with an Asset Purchase Agreement on August 5, 2015, whereby Kiska Metals Corporation transferred to BRI 100 percent interest in the Whistler Project in exchange for the issuance of 3,500,000 common shares in the capital of BRI as disclosed by news release on August 6, 2015.

The first underlying agreement is a Royalty Purchase Agreement between Kiska Metals Corporation, Geoinformatics Alaska Exploration Inc. and MF2, LLC, dated December 16, 2014. This agreement grants MF2 a 2.75 percent NSR royalty over all 304 claims, and extending outside the current claims over an Area of Interest defined by the maximum historical extent of claims held on the project as indicated on Figure 4-1. BRI can purchase 0.75 percent of the NSR royalty for a payment of US$5,000,000 to MF2, LLC.

The second underlying agreement is an earlier agreement between Cominco American Incorporated and Mr. Kent Turner dated October 1, 1999. This agreement concerns a 2.0 percent net profit interest held by Teck Resources in connection with an Area of Interest specified by standard township sub-division as indicated in Figure 4-2.

The third underlying agreement is a Purchase and Sale agreement between Kent Turner, Kiska Metals Corporation and Geoinformatics Alaska Exploration Inc., dated December 16, 2014 that terminates the "Turner Agreement" (an agreement that grants Kennecott and its successors a 30-year lease on twenty-five unpatented State of Alaska Claims; see Figure 4-2) and transfers to Kiska and Geoinformatics, and their successors, an undivided 100 percent of the legal and beneficial interest in, under, to, and respecting the Turner Property free and clear of all Encumbrances arising by, through or under Turner other than the Cominco American net profit interest.

A full Claims List can be found in Appendix A at the end of this report. BRI currently permits with the State of Alaska in place that allow for the work proposed in this report, primarily exploration diamond drilling, to proceed. These include a Miscellaneous Land Use Permit for Hardrock Exploration and Reclamation, a Temporary Water Use Permit, and a Fish Habitat Permit. These permits are good until December 31st, 2015, and are renewable on an annual basis.

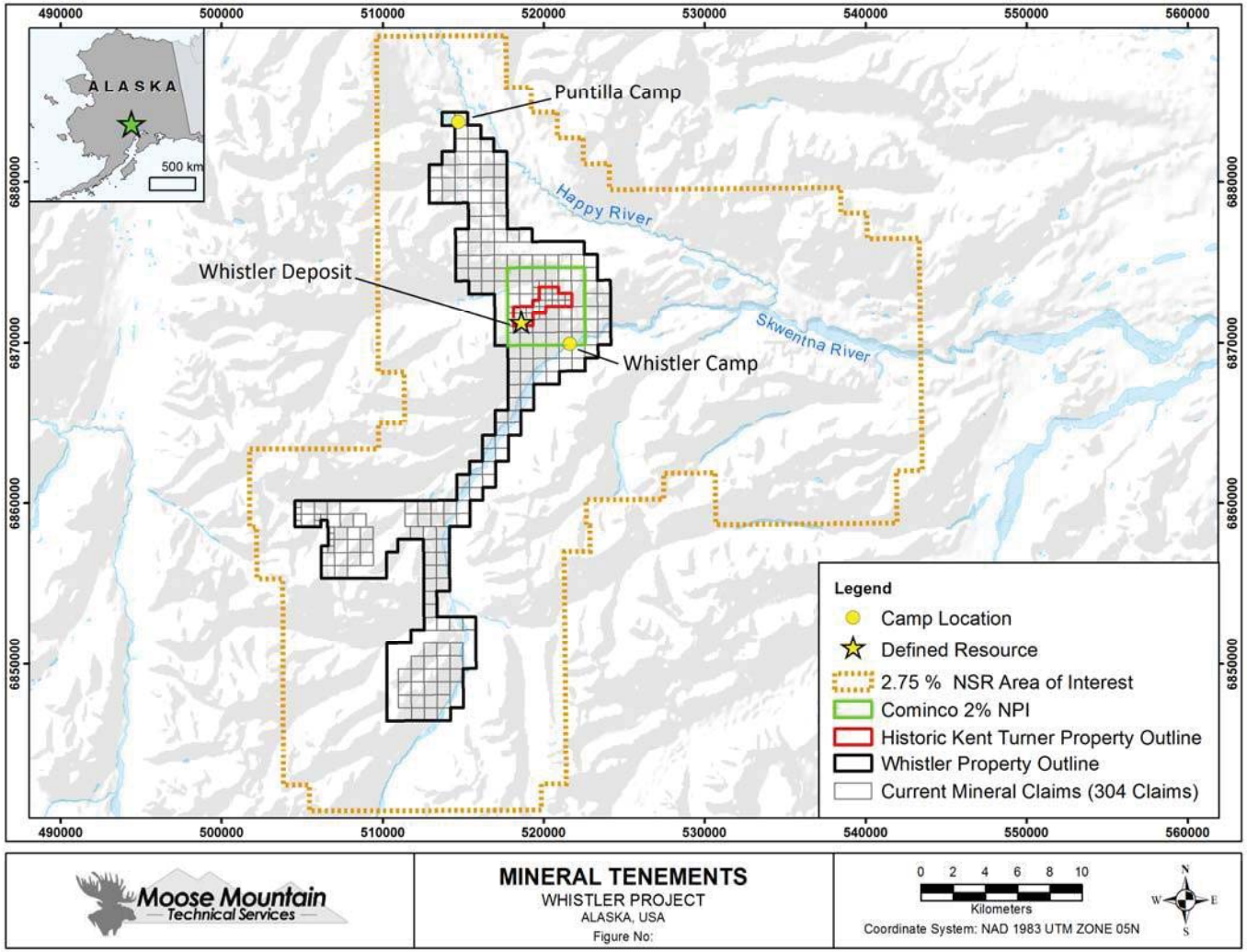


Figure 4-2 Tenement Map (2015). Modified from Roberts, 2011a.

5.0 Accessibility, Climate, Local Resources, Infrastructure and Physiography

The Whistler Project is located in the Alaska Range approximately 150km northwest of Anchorage and 76km west of the township of Skwentna (Figure 4-1). Access to the project area is by fixed wing aircraft to a gravel airstrip located adjacent to the Whistler exploration camp. In the winter of 2011, Kiska had constructed a temporary winter trail to the Whistler Project that was then used for the inbound transportation of fuel, earth moving equipment, and bulk items for the camp and exploration programs.

The project area is between regions of maritime and continental climate and is characterized by severe winters and hot, dry summers. The maritime climatic influence provides for dry, mild and temperate summers. Fog and low clouds are common in mid-summer and fall especially around higher elevation areas. Average summer temperatures range between 5° and 20°C, whereas winter temperatures range from -15° to -5°C. Occasionally, arctic cold fronts will propagate across the Alaska Range from the interior, causing cold dry air to seep into the watershed. These infrequent stationary high pressure systems can lead to clear days with temperatures dropping to a low of -35°C during the winter. Strong winds persist during the winter months. Annual precipitation ranges from 500 to 900mm. Winter snow accumulation usually begins in October and by mid to late May the snow has melted sufficiently to allow for fieldwork.

The Whistler Project is supported by a fifty person, all season camp located on the banks of the Skwentna River approximately 2.7km from the Whistler deposit and 22km from the Island Mountain prospect. The camp is connected to the Whistler deposit by a 6km access road.

The camp is served by a 38 kilowatt generator, water well, septic system, showers and flush toilets, and a modern kitchen. A smaller 16 kilowatt backup and low peak need generator is also installed in the well/generator house. The camp has 37 sleeper tents, 3 wood frame cabins, a cook tent, a recreational tent, First Aid Tent, a wood frame well/generator house and a wood frame men's and women's shower/restroom building.

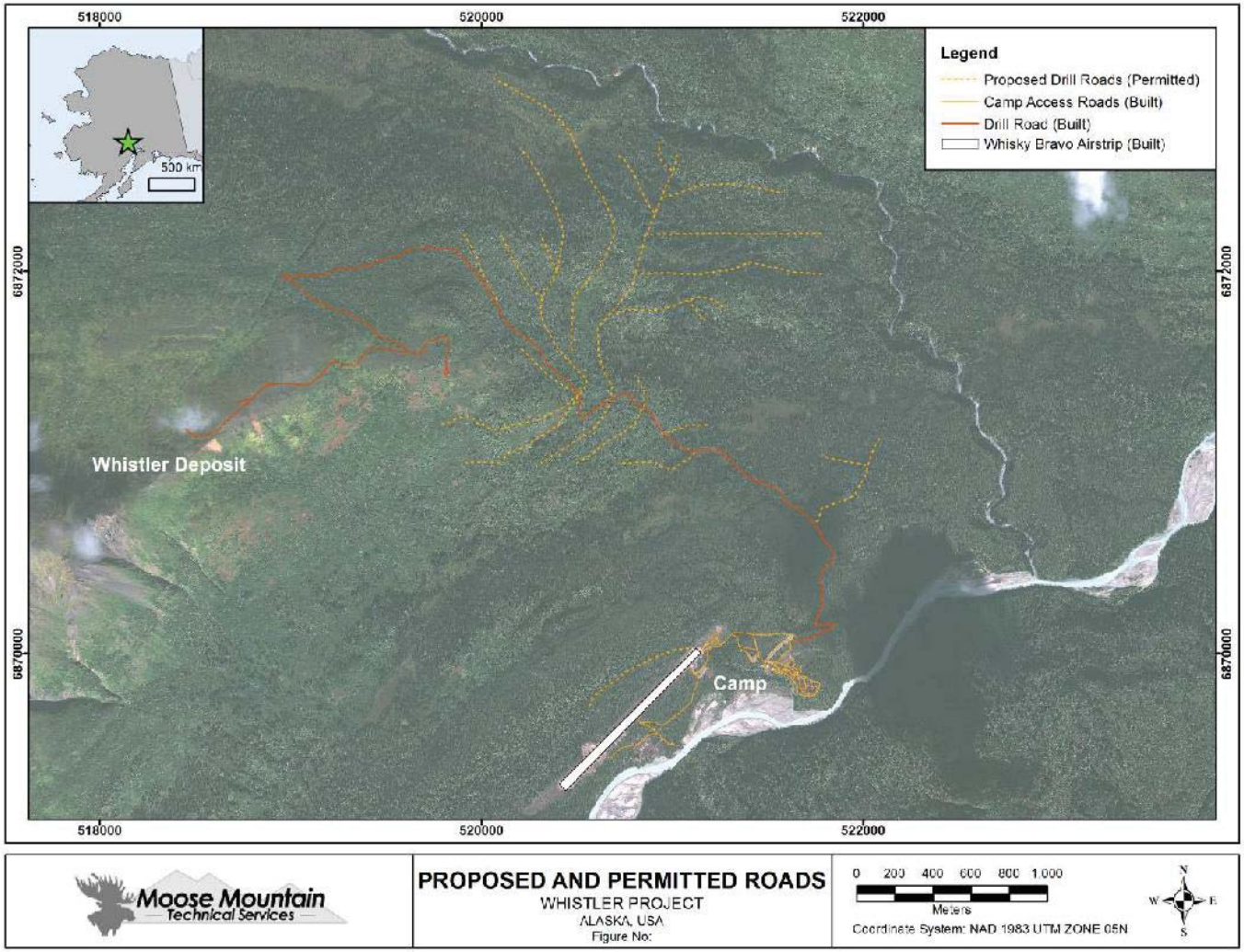


Figure 5-1 **Layout of Built and Proposed (and permitted) Roads in the Whistler Area (2015). Modified from Roberts, 2011a.**

Core processing facilities consist of one insulated core cutting tent that houses two core saws. The core logging facilities consist of two 7m by 14m structures. One is an insulated tent the other is a well-insulated, well lit, wood-frame building. All core cutting and logging facilities have decks that are designed for ease of handling large volumes of core with skid steer fork lifts. All areas around camp have graveled travel ways that connect camp facilities with runway facilities.

There is a wood-frame shop building that is for general camp maintenance and all rolling stock. The shop and core cutting facilities are supplied electricity by a separate generator building. A 20 kilowatt generator supplies power during peak months when both saws are running. A 16 kilowatt generator is available for lower peak needs and back-up.

Heavy equipment and ground transport machines at the Whistler Project include one Cat D6 bulldozer; one Cat 226B track skid-steer; one Bobcat skid-steer; one Volvo A-30 haul truck; ten snowmobiles; five ranger-style ATVs; and three 4-wheeler "Quad" ATVs.

A sports field sized area has been cleared and graveled for core storage. Adjacent areas can be cleared for more storage as the project grows. There are also two wooden-deck helicopter pads with a small building for helicopter support.



Figure 5-2 Layout of the Whiskey Bravo Camp and Facilities (2015). Modified from Roberts, 2011a.

A 1000m compacted gravel runway provides a nearly year round landing surface. The runway is capable of landing DC-3 class aircraft and smaller. An 113,400 litre fuel storage facility is located at the north east end of the runway. All tanks are stored in separate lined containments. They are designed to contain at least 1.5 times the volume of the largest tank in the containment. All pumping is done through aircraft approved filter systems. Two buildings are located just off the runway for drilling company shop/warehouses and there is ample room for lay down areas for parts and materials storage.



Figure 5-3 Layout of the Runway relative to Camp (2015). Modified from Roberts, 2011a.

Communications is provided by a wireless satellite system. There is also a cell phone repeater at the satellite communications station located on Whistler Ridge. It provides fair-quality cell phone service in camp.

The nearest public infrastructure for the Whistler Project is the town of Petersville, located approximately 100km west of Whistler; Petersville is connected to Anchorage by an all-weather road and highway. The project is also located approximately 150km north of the Beluga coalfield project and the Tyonek gas power station on the Cook Inlet coast.

The project is located in the drainage of the Skwentna River that forms a large network of interconnected low-elevation U-shaped valleys cutting through the rugged terrain of the southern Alaska Range. Elevation varies from about 400m above sea level in the valley floors to over 5,000m in the highest peaks resulting in a quite spectacular landscape. The Alaska Range is a continuation of the Pacific Coast Mountains extending in an arc across the northern Pacific. Mount McKinley, North America's highest peak at 6,194m, is located approximately 130km northeast of the project area.

The vegetation in the Whistler region is quite variable. The valley floors and lower slopes are usually characterized by dense vegetation giving way above about 750m elevation to dense bushy shrubs rendering ground access difficult. At higher elevations, vegetation is absent and active glaciers with terminal and lateral moraines are present. The timber line is located at elevations varying between 800m to 1,100m. Bedrock exposures within the project area are scarce except at elevations above 1,000m and along incised drainage.

The Whistler Project mineral claims provide the area that is sufficient for the development of a potential open pit project, though a source of power has yet to be determined and mining personnel would likely have to be housed in a camp.

6.0 History

During the late 1960s, regional mapping and geochemical sampling by the United States Geological Survey (USGS) identified several base and precious metal occurrences over a very large area in the southern Alaska Range including southern portions of the Whistler project area.

Following the results of that work, limited exploration was conducted in the area during the 1960s and 1980s. Falconbridge (or their operator St. Eugene) was involved in exploring the nearby Stoney Vein in the late 1960s. A local prospector, Arne Murto (deceased), was active in the Long Lake Hills area from at least 1964 and AMAX staked at least four claims over the Lower Discovery showing at Mount Estelle (circa 1982).

Mineral exploration in the Whistler area was initiated by Cominco Alaska in 1986 and continued through 1989. During this period, the Whistler and the Island Mountain gold-copper porphyry occurrences were discovered and partially tested by drilling. In 1990, Cominco's interest waned and all cores from the Whistler region were donated to the State of Alaska. The property was allowed to lapse.

In 1999, Kent Turner staked twenty-five State of Alaska mining claims at Whistler and leased the property to Kennecott. From 2004 through 2006 Kennecott conducted extensive exploration of the Whistler region, including geological mapping, soil, rock and stream sediments sampling, ground induced polarization and they conducted an evaluation of the Whistler gold-copper occurrence with fifteen core boreholes (7,948m) and reconnaissance core drilling at other targets in the Whistler region (4,184m). Over that period, Kennecott invested over USD$6.3 million in exploration.

In June 2007, Geoinformatics Exploration Inc. ("Geoinformatics") announced the conditional acquisition of the Whistler Project as part of a strategic alliance with Kennecott Exploration Company ("Kennecott"). Between July and October 2007, Geoinformatics drilled seven core boreholes (3,321m) to infill the deposit to sections spaced at seventy-five metres and to test for the north and south extensions of the deposit.

In August 2009, Geoinformatics acquired Rimfire Minerals Corporation and changed its name to Kiska Metals Corporation ("Kiska"). In 2009 and 2010, Kiska completed three phases of exploration on the property to fulfill the terms of the Standardization of Back-In Rights ("SOBIR") Agreement between Kennecott Exploration Company and Kiska Metals Corporation.

In total, Kiska completed 224 line-km of 3D induced polarization (IP) geophysics, 40 line-km of 2D IP geophysics, 327 line-km of cut-line, geological mapping on the 3D IP grid, detailed mapping of significant Au-Cu prospects, collection of 109 rock samples and 61 soil samples, 8,660m of diamond drilling from 23 drillholes (all greater than 200 metres in total length), petrographic analysis of mineralization at Island Mountain, a preliminary review of metallurgy at the Whistler Resource, and metallurgical testing of mineralization from the Discovery Breccia at Island Mountain. This program was executed by Kiska geologists, independent geologists and multiple contractors, under the supervision of Kiska personnel. All aspects of the exploration program were designed and monitored by a Technical Committee comprised of two Kennecott employees and two Kiska employees. In August of 2010, Kiska delivered a

Technical Report to Kennecott summarizing the results of the completed Trigger Program. In September of 2010, Kennecott informed Kiska that it would not exercise its back-in right on the project and hence retained a 2% Net Smelter Royalty on the property.

From this point forward, Kiska continued to drill and explore the Whistler Project for the duration of the 2010 and 2011 field seasons. The majority of this work included shallow grid drilling (25m to 50m top of bedrock drilling) in the Whistler Area (also referred to as the Whistler Corridor), conventional step-out drilling from prospects in the Whistler Area, step-out drilling at the Island Mountain Breccia Zone, an airborne EM survey of the Island Mountain area, reconnaissance drilling at Muddy Creek, and minor infill drilling at the Whistler Deposit, followed by the publication of an updated NI43-101 resource estimate (MMTS, 2011).



Figure 6-1 Whistler, Discovery Outcrop



Figure 6-2 Whistler, Discovery Drillhole, WH-01

7.0 Geological Setting and Mineralization

7.1 Geological Setting

The Whistler Project is situated within the Wrangellia Composite Terrane (WCT), one of three composite terranes accreted to the Alaskan portion of the North America Cordilleran margin in the Mesozoic and Cenozoic. This margin records a complex history of terrane accretion, basin formation, basin exhumation, subduction, and multiple pulses of magmatism.

In south-central Alaska, the WCT is comprised of three significant tectono-magmatic assemblages (Figure 7-1): 1) the Paleozoic-Triassic basement rocks upon which the Early to Late Jurassic Talkeetna island arc was built, including volumetrically significant plutonic rocks; 2) the Kahiltna assemblage, consisting of Jura-Cretaceous flysch sediments that formed in basins initiated by the convergence of Wrangellia with the former continental craton; and 3) voluminous Upper Cretaceous and Paleocene-Oligocene igneous rocks, dominantly plutons, that stitch the Wrangellia composite terrane with the inboard autochthonous terranes. The latter two assemblages dominate the regional geology of the Whistler area.

The Kahiltna assemblage occurs as a broad 100km by >300km belt extending across the Alaska Range. This assemblage is comprised of mostly marine sediments with fossils indicating deposition from the Late Jurassic to Early Cretaceous.

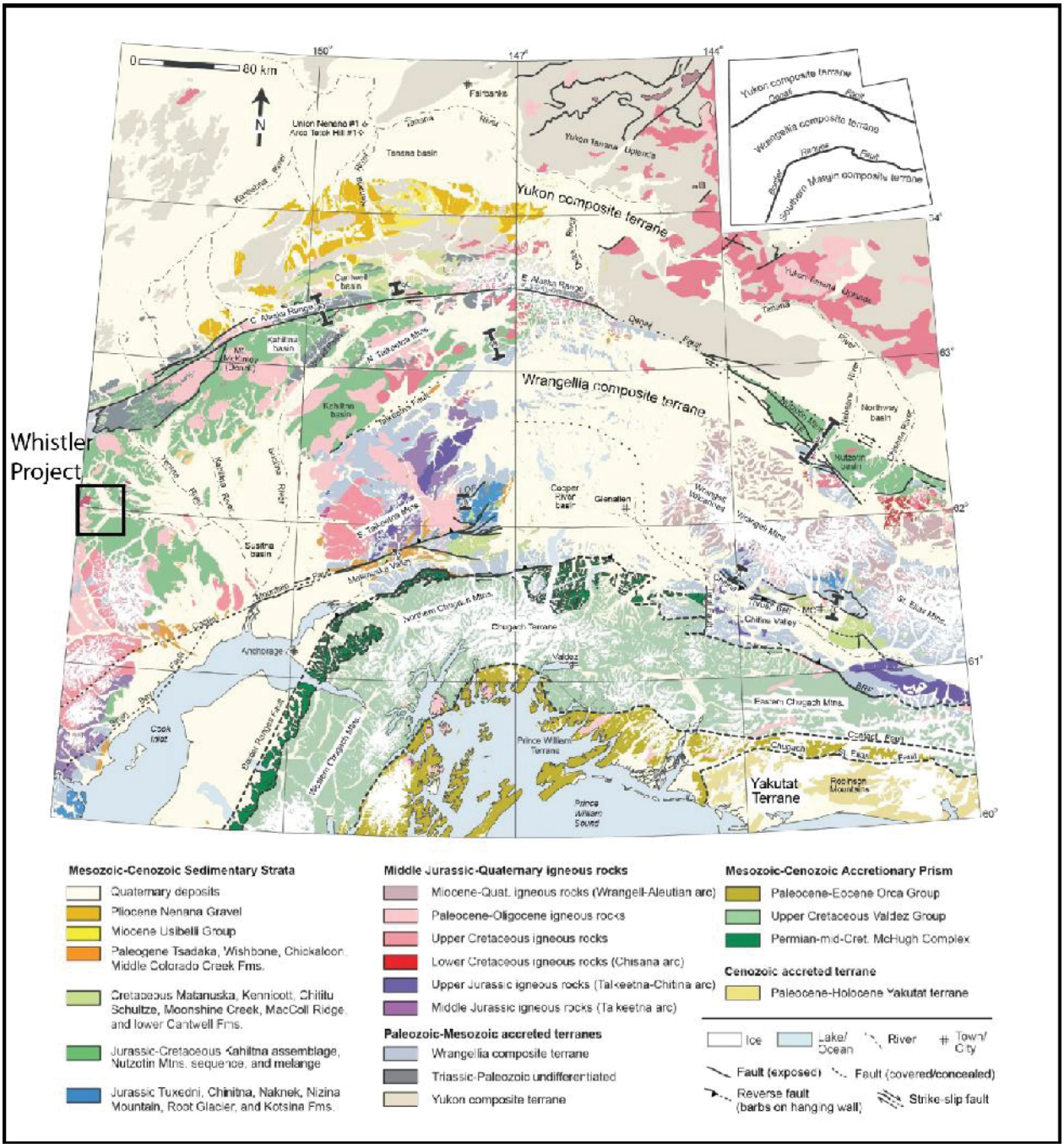


Figure 7-1 Regional Geological Map of South-central Alaska (from Trop and Ridgeway, 2007)

The black inset box shows the location of Whistler area and map extent in Figure 7-1.

Uplift and shortening of the Kahiltna basin was followed by the construction of a continental-margin arc as defined by an extensive belt of 80-60Ma plutons extending from the Alaska Range south-eastwards into the Coast Range of Canada. In the Alaska Range, these arc rocks are dominated by plutons interpreted to be the deeper roots of subvolcanic and volcanic centres; however extrusive sections are locally preserved.

There are four intrusive suites associated with this epoch of magmatism that are recognized in the Whistler region, including (from oldest to youngest): 1) the Whistler Intrusive Suite or "WIS" (host to the Whistler Deposit); 2) the Summit Lake Suite; 3) the Composite Suite; and 4) the Crystal Creek Suite (Figure 7-1).

The Whistler Intrusive Suite consists of intermediate to mafic extrusive and intrusive rocks, including diorite porphyries. These diorite porphyries are host to, and genetically associated with, gold-copper porphyry mineralization on the Whistler Project area. This is the only suite where comagmatic extrusive rocks and shallow subvolcanic intrusive rocks are recognized in the region. On a district scale the intrusions generally occur as sills and less commonly as dikes and small stocks. New U-Pb age dating of zircons from the mineralized diorite porphyry in the Whistler Deposit, and other mineralized porphyries on the Whistler Project, indicate igneous ages of 76.36Ma ±0.3Ma (Hames, 2014). One of the least-altered diorite porphyry intrusions located on the Whistler Ridge has a hornblende Ar-Ar age date of 75.5 ± 0.3Ma (Young, 2005).

The Summit Lake intrusions are regionally represented by 74 to 61Ma calc-alkaline granodiorite to diorite, becoming more monzonitic and of alkali-calcic affinity in the Whistler area. East and northeast from Whistler, these intrusions are associated with local gold prospects and have been called the Kichatna plutons and more locally, the "Old Man Diorite".

The Composite Plutons include the Emerald, Mount Estelle, Stoney, and Kohlsaat plutons, and are locally associated with gold mineralization. The Composite Plutons are seen to be somewhat concentrically zoned magmatic series, with an early border phase of alkaline mafic to ultramafic rock, inwards towards less alkaline monzonites to granites. The common age range is 67 to 64Ma.

The Crystal Creek sequence, located south of Whistler, is mainly calc-alkaline granite or rhyolite and ranges in age from 61 to 56Ma. More mafic rocks, including the 61Ma Porcupine Butte andesite and Bear Cub (diorite) pluton, may represent higher level/border phases to the Crystal Creek sequence.

Continental arc magmatism in the Latest Cretaceous is responsible for some of the most significant gold and copper-gold deposits in Alaska. These include the Pebble gold-copper porphyry deposit (89Ma; Schrader et al., 2001), the Donlin Creek gold deposit (70Ma, Szumigala et al, 2000), the Fort Knox gold deposit (95 - 89Ma, Mortenson et al., 1995), and the Livengood gold deposit (Late Cretaceous).

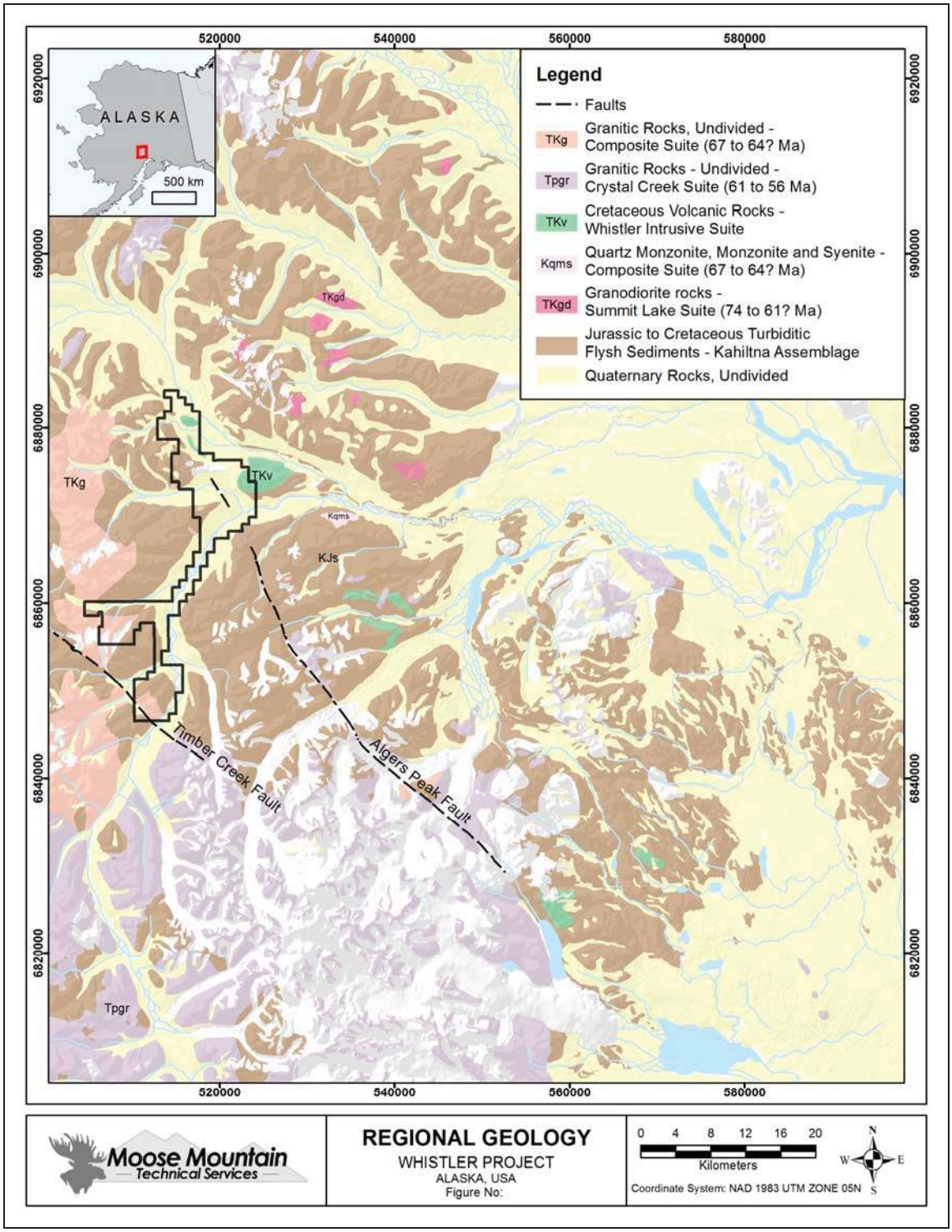


Figure 7-2 Regional Geology of the Whistler Project (from Wilson et al., 2009)

7.2 Property Geology

The property geology of the Whistler area is well documented and described in detail by Young (2005) and Franklin (2007). The property can be subdivided into three main areas based on distinctive intrusive rocks and their association with gold-copper and gold-only mineralization: 1) The Whistler Corridor; 2) Island Mountain; and 3) Muddy Creek (Figure 7-3).

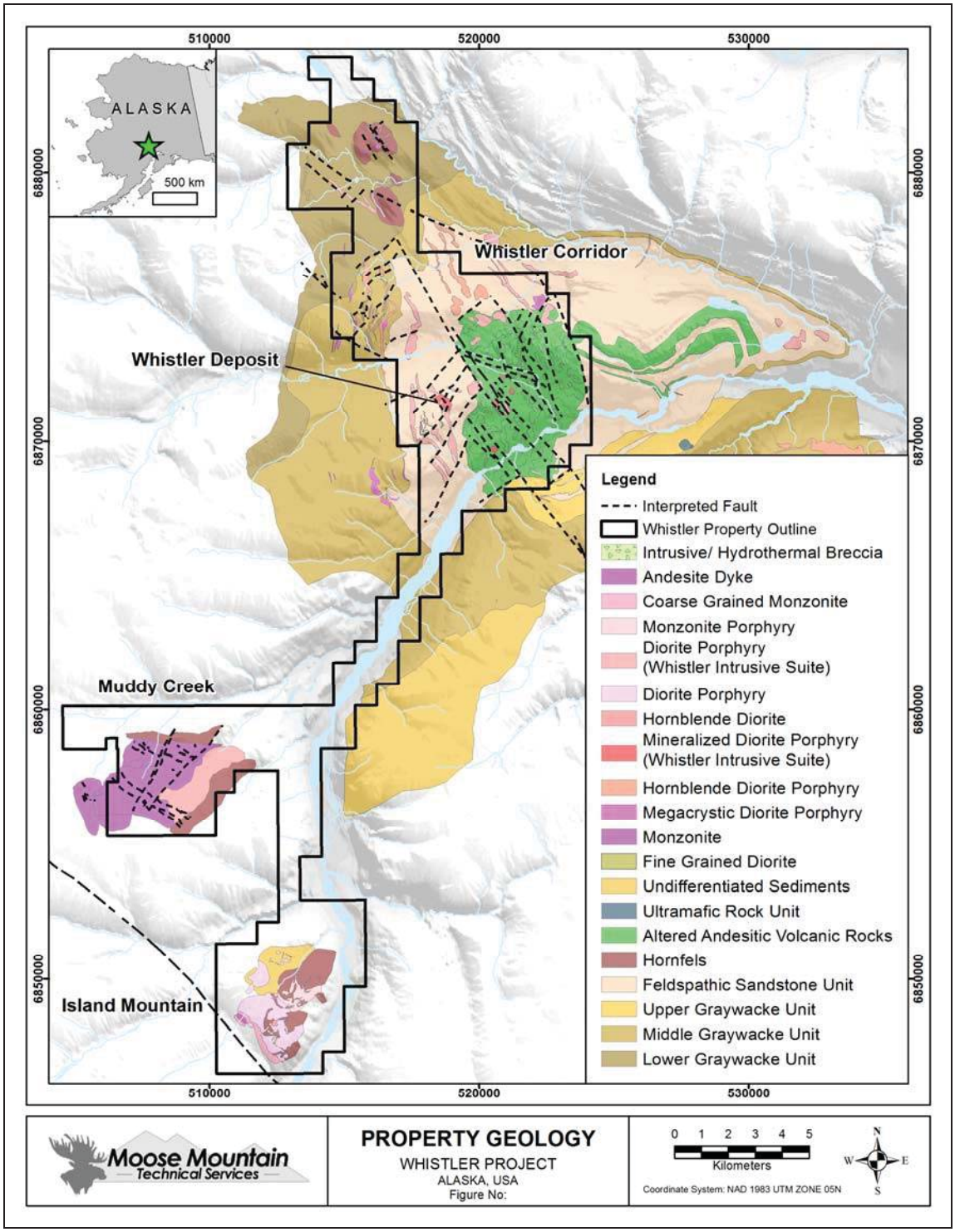


Figure 7-3 Geological Map of the Whistler Corridor (2015). Modified from Roberts, 2011a.

7.2.1 Whistler Corridor

The bulk of the Whistler property is underlain by flysch sediments of the Kahiltna assemblage, while the Whistler Corridor is dominated by a largely fault bounded block of andesitic volcanic rocks, interpreted to represent a local volcanic-dominated basin (Figure 7-4). The sedimentary and volcanic rocks are host to a variety of dioritic to monzonitic dykes, sills and stocks of the Whistler Intrusive Suite (WIS). Much of the low-lying areas in this region are covered by 5 to 15 metres of glacial till, and hence much of the geological map is based on drilling and interpretation of geophysical data.

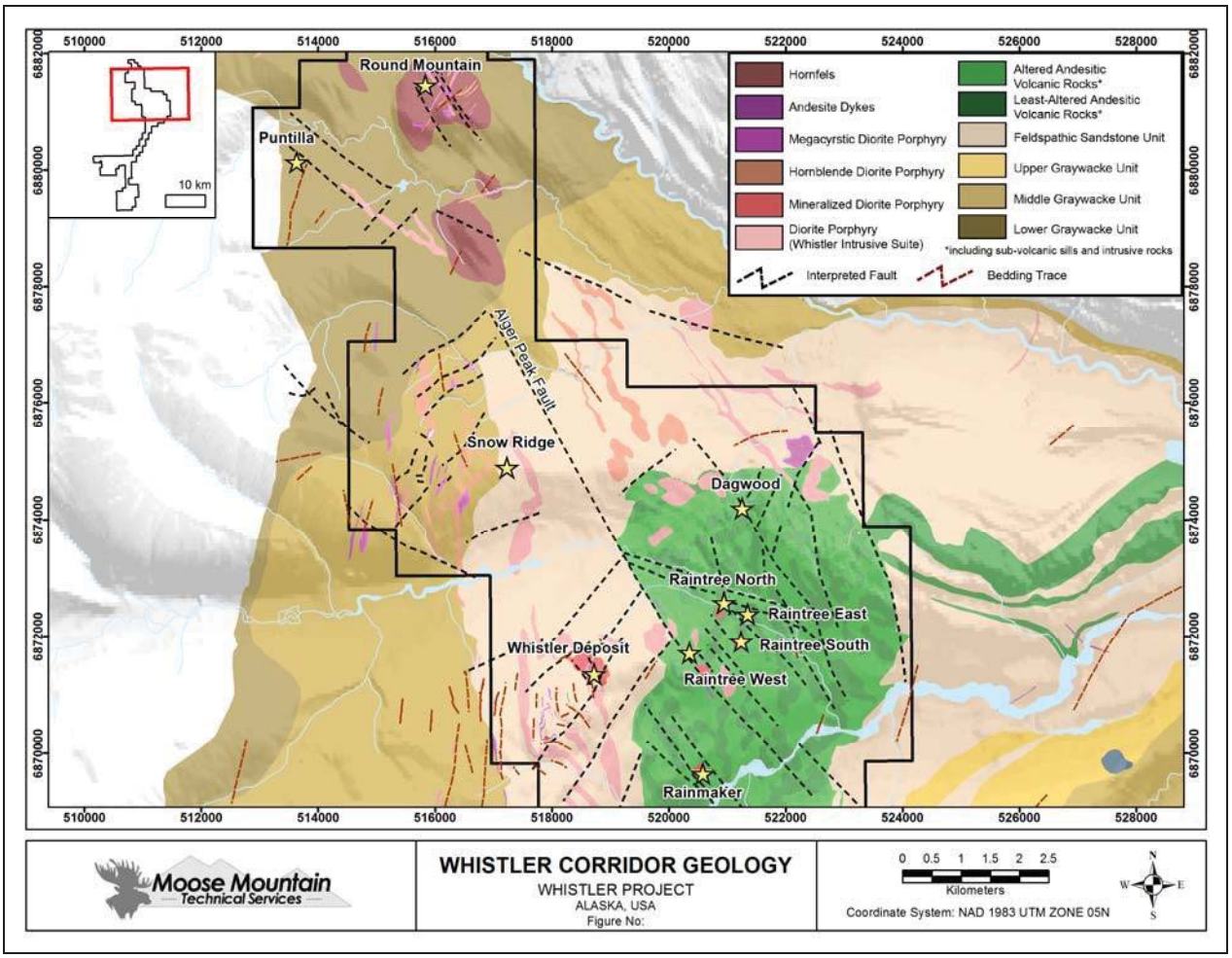


Figure 7-4 Whistler Project Geology (2015). Modified from Roberts, 2011a.

The Whistler Deposit is hosted by a multi-phase diorite porphyry intrusive complex of the WIS nested within sediments of the flysch package, whereas prospects in the Whistler Area (Raintree, Rainmaker) are hosted by similar diorite porphyry intrusive centres within the volcanic basin. Age dating of mineralized and barren diorite porphyry units on the Whistler ridge indicates that magmatism occurred at approximately 75 to 76Ma (Young, 2005; Hames, 2011). The mineralogy and composition of the intrusive rocks and the andesitic volcanic rocks are quite similar, suggesting that they are broadly

comagmatic (Young, 2005). Inversion modeling of the airborne geophysical data suggests that there is a large 5 kilometre diameter batholith possibly situated 1 kilometre below the surface and that some of the diorite porphyry intrusive centres are cupolas at the apices of the batholith.

The detailed geology of the volcanic stratigraphy remains uncertain, largely due to glacial cover and the extensive amount of texturally destructive, hydrothermal alteration. Volcanic rocks are comprised of coherent andesites and volcanic breccias that define a variety of depositional facies. Based on the occurrence of common argillaceous interflow sediments Young (2005) inferred a sub-aqueous marine setting for the bulk of the volcanic rocks. In the eastern Long Lake Hills area, volcanic flows are interbedded with Feldspathic Sandstones, and Young (2005) interpreted this to represent the onset of volcanism in a shallower marine setting. In addition to these extrusive rocks, a large volume of the volcanic rocks are interpreted to be comprised of porphyritic, subvolcanic units, as either large sills or stocks. These subvolcanic units can be difficult to differentiate from coherent volcanic rocks, particularly porphyritic flows, and in areas of intense texturally-destructive phyllic alteration. The stratigraphy of the volcanic rocks are currently unresolved. The current geological map only differentiates “least-altered” from “altered” volcanic rocks based on the extrapolation of airborne magnetic data from the grid and scout drilling. All of the volcanic and subvolcanic rocks encountered in drilling are magnetic when they are least-altered, and magnetism is generally destroyed by sulphidation during phyllic alteration.

In addition to least-altered volcanic rocks, magnetic high anomalies also occur in association with northwest-elongated linear to oval-shaped diorite dykes and stocks hosted by flysch sediments and in association with zones of near-surface secondary magnetite alteration and veining, such as the Whistler deposit, and the Rainmaker and Raintree North prospects.

The bulk of the flysch sediments on the Whistler Project area have north to northeast striking and steeply dipping bedding orientations due to compressional deformation that resulted in chevron-style folding. These folds are north-east striking, and fold limbs are typically moderate to steep or overturned (Young, 2005). A dioritic sill exposed on the Whistler Ridge is likewise folded, suggesting that a component of dioritic magmatism pre-dated regional deformation.

Several northeast-trending faults have been interpreted based on topographic linear features and the truncation and offset of magnetic features. These are considered to be the earliest structure features on the property since they are truncated by north-northwest-oriented faults with left-lateral offset, such as the Alger Peak Fault.

7.2.2 Island Mountain

The Island Mountain area is comprised of a suite of nested intrusions, ranging compositionally from hornblende diorite to hornblende-biotite monzonite, emplaced within flysch sediments of the Kahiltna assemblage (Figure 7-5). Texturally, these intrusions range from equigranular to strongly porphyritic, suggesting a relatively high level of emplacement typical of the porphyry environment. Unlike the Whistler area, no coeval volcanic rocks are recognized. Based on limited whole-rock geochemistry (Young, 2005) the Monzonite at Island Mountain plots within the silica-saturated alkalic field of Lang et al. (1995) and is the intrusive equivalent of trachy-andesite on a total alkali versus silica diagram. This

suite of intrusions is mapped as part of the circa 67 to 64Ma Composite Suite of intrusions, similar to the Muddy Creek area, however recent age dating suggests some complexity with dates ranging from 77Ma down to 64Ma (Gross, 2014). Compared to Muddy Creek, the intrusive rocks at Island Mountain are generally more mafic (diorite and monzonites as opposed to quartz monzonite and granites at Muddy Creek), are magnetite-bearing rather than ilmenite-bearing, are commonly more porphyritic rather than coarse equigranular, lack the strong, pervasive gold-arsenic association, and lack the evenly distributed northwest-oriented sheeted fracture set that typifies mineralized structures at Muddy Creek. For these reasons, it is likely that igneous rocks at Island Mountain represent a unique intrusive suite separate from the Composite Suite.

This unique intrusive centre is broadly situated at the intersection between the regionally significant northwest-striking Timber Creek Fault, which can be traced for 10's of kilometres, and the Skwentna River valley, postulated as a possible fault zone (Young, 2005). The bulk of the nested intrusions occur on the southeast side of Island Mountain and this is where sediments in the contact metamorphic aureole of these intrusions are hornfelsed. The hornfels, especially on the southwest corner of Island Mountain, occur as irregular rafts and possibly roof pendants that appear to form a slope-parallel skin of country rock that demarks the roof zone of this intrusive complex. Sediments consist of dark mudstone, shale, thin- to medium-bedded siltstone and dark grey sandstone and minor dirty calcareous sedimentary beds and a few local thin pebble conglomerate units. These units predominate on the northwest portion of Island Mountain.

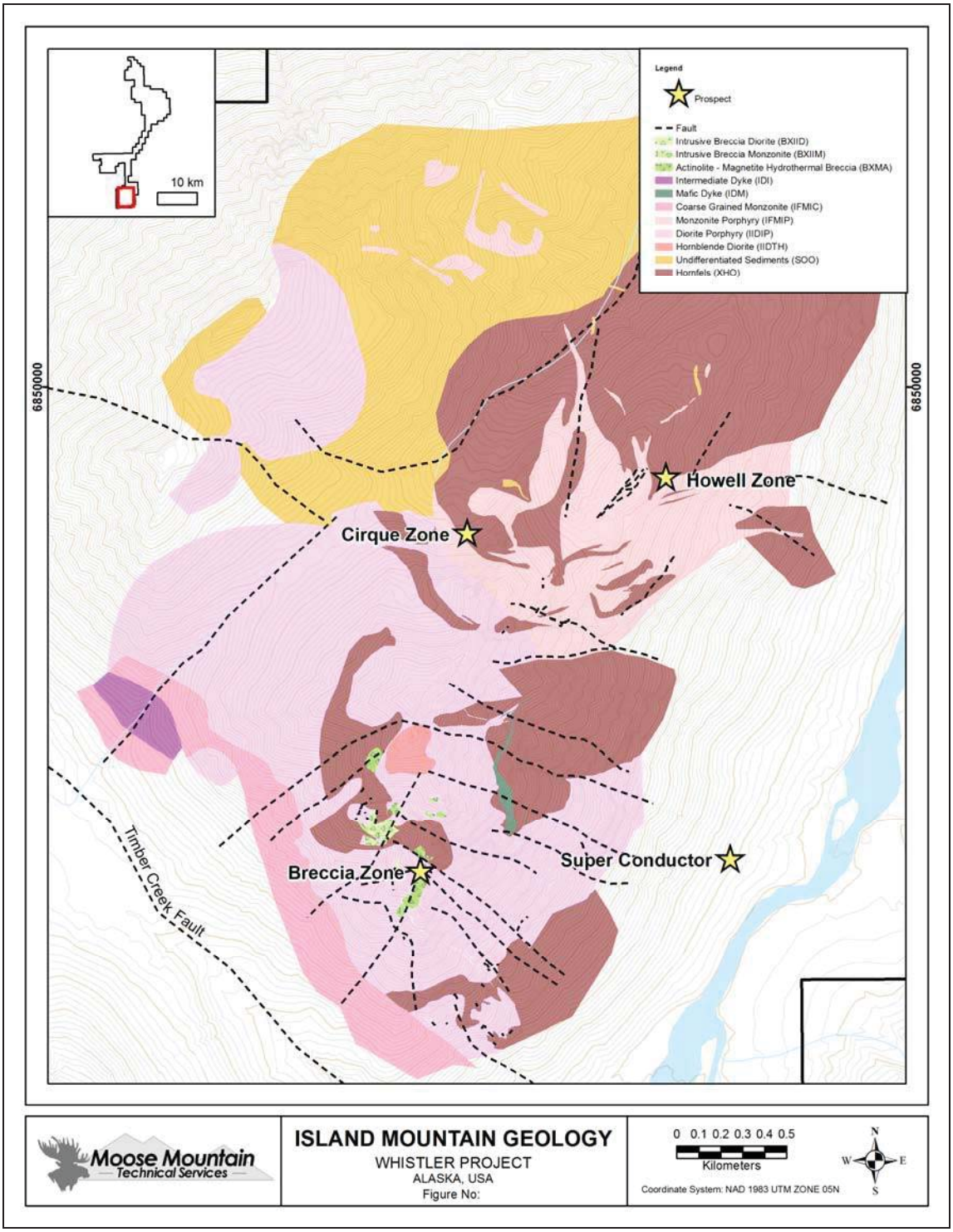


Figure 7-5 Property Geology of the Island Mountain Area (2015). Modified from Roberts, 2011b.

The earliest recognized intrusive phase is the Island Mountain Diorite Porphyry. This unit has been observed to be cut by all other igneous units and is the host to gold-copper porphyry mineralization associated with intrusive and hydrothermal breccias at the Breccia Zone.

The next most volumetrically significant intrusive phase is a Monzonite Porphyry (IFMIP) that occurs in the northeast corner of Island Mountain, and which is generally the host of gold-copper porphyry-style mineralization at the Cirque and the Howell zones. Unlike the Diorite Porphyry, this unit contains magnetite phenocrysts and is thus well delineated by airborne magnetic survey data.

In the Breccia Zone, Diorite- and Monzonite-cemented intrusive breccias occur as sub-vertical, 100-150 metre diameter, sub-circular to irregularly shaped pipes that grade into actinolite-magnetite-cemented hydrothermal breccias with pyrrhotite-pyrite-chalcopyrite mineralization, which together define magmatic-hydrothermal conduits that host the bulk of gold-copper porphyry mineralization in this area. Not all the Intrusive Breccia bodies are altered or mineralized, suggesting that either some of these breccias post-date the main phase of mineralization, or that some pre-mineral intrusive breccias were not affected by hydrothermal fluid. Together, these intrusive and hydrothermal breccias have been the focus of the majority of the exploration drilling at Island Mountain since 2009. A series of these breccias extend discontinuously for 700 metres from the “Breccia Zone” on a north-northwest trend along the south-western slope of Island Mountain. The Breccia Zone also contains narrow, pencil-like bodies of Coarse Porphyritic Hornblende Diorite that are syn-to-post gold-copper mineralization.

This corridor of breccias is flanked by strong pervasive albite alteration with local zones of vein and disseminated pyrrhotite that constitutes significant Au-only mineralization within and flanking the Breccia Zone. Similar intrusive and hydrothermal breccias with peripheral sodic alteration and pyrrhotite mineralization occur in areas of gold and copper soil anomalies at the Howell Zone, suggesting the occurrence of multiple magmatic-hydrothermal centres. The Howell Zone remains untested by drilling.

The last volumetrically significant phase of magmatism is represented by a coarse grained equigranular monzonite that occurs as a northwest-striking dyke or sill exposed near the base of slope on the south-western side of Island Mountain. This unit lies adjacent and strikes parallel to the regional Timber Creek Fault, suggesting a possible regional control on the emplacement of this unit. Likewise, all of the above-mentioned units are cut by narrow, post-mineral, fine-grained mafic to intermediate dykes that generally strike to the northwest and dip steeply.

7.2.3 Muddy Creek

Muddy Creek is located in rugged terrain along the western edge of the Whistler Project and is comprised of several steep, north-east facing U-shaped glacial valleys separated by razor-back ridges with small remnant glaciers at the heads of each valley. This prospect is largely underlain by a monzonitic intrusive complex, part of the Composite Suite (or Estelle Suite) of intrusions that were emplaced within sediments of the Kahiltna Assemblage in the late Cretaceous (Figure 7-6). An argon-argon analysis of igneous biotite from a granodiorite on the western margin of the intrusive complex returned an age date of 67.4Ma ± 0.4Ma (Solie et al., 1991a). A steep, east-west trending contact between the intrusive complex and hornfels sediments is well-exposed in the ridgelines in the northern

portion of the prospect and is comprised of a conspicuous and extensive red-brown colour anomaly. Hornfels also comprises the eastern-contact of the intrusive complex.

The bulk of the geological mapping at Island Mountain was completed by Kennecott and the following descriptions are from Young (2005). The core of the intrusive complex is monzonitic, grading outwards to progressively more mafic and older intrusive phases (Crowe et al., 1991), with pendants of ultramafic rocks at the margins (Millholland, 1998). The pluton intrudes very steeply north-dipping sedimentary rocks of the middle Graywacke Sandstone subunit and Tabular Sandstone unit. Local matrix-supported pebble conglomerate and spherical concretions along Muddy Creek support a correlation with the Tabular Sandstone unit.

The majority of the Mount Estelle pluton consists of biotite-monzonite, with an increasing proportion of augite phenocrysts towards the margins. Monzonite is medium- to coarse-grained and idiomorphic granular and occurs at the central and southern portions of the mapped area at Muddy Creek. Mafics, principally biotite books (to 5 mm) and subordinate to absent stubby dark augite generally constitute 15 to 35% of the monzonite. Twinned 3mm to 1cm orthoclase phenocrysts are a fundamental component. Groundmass consists of a medium-grained equigranular mixture of feldspar and quartz. Rounded xenoliths are rare, but widespread, and consist of biotitized sediments and more strongly mafic (biotite and augite)-rich intrusive rock of earlier intrusive phases. Intrusion breccia's with rounded clasts are a very local feature as are sinuous to linear aplitic dikes.

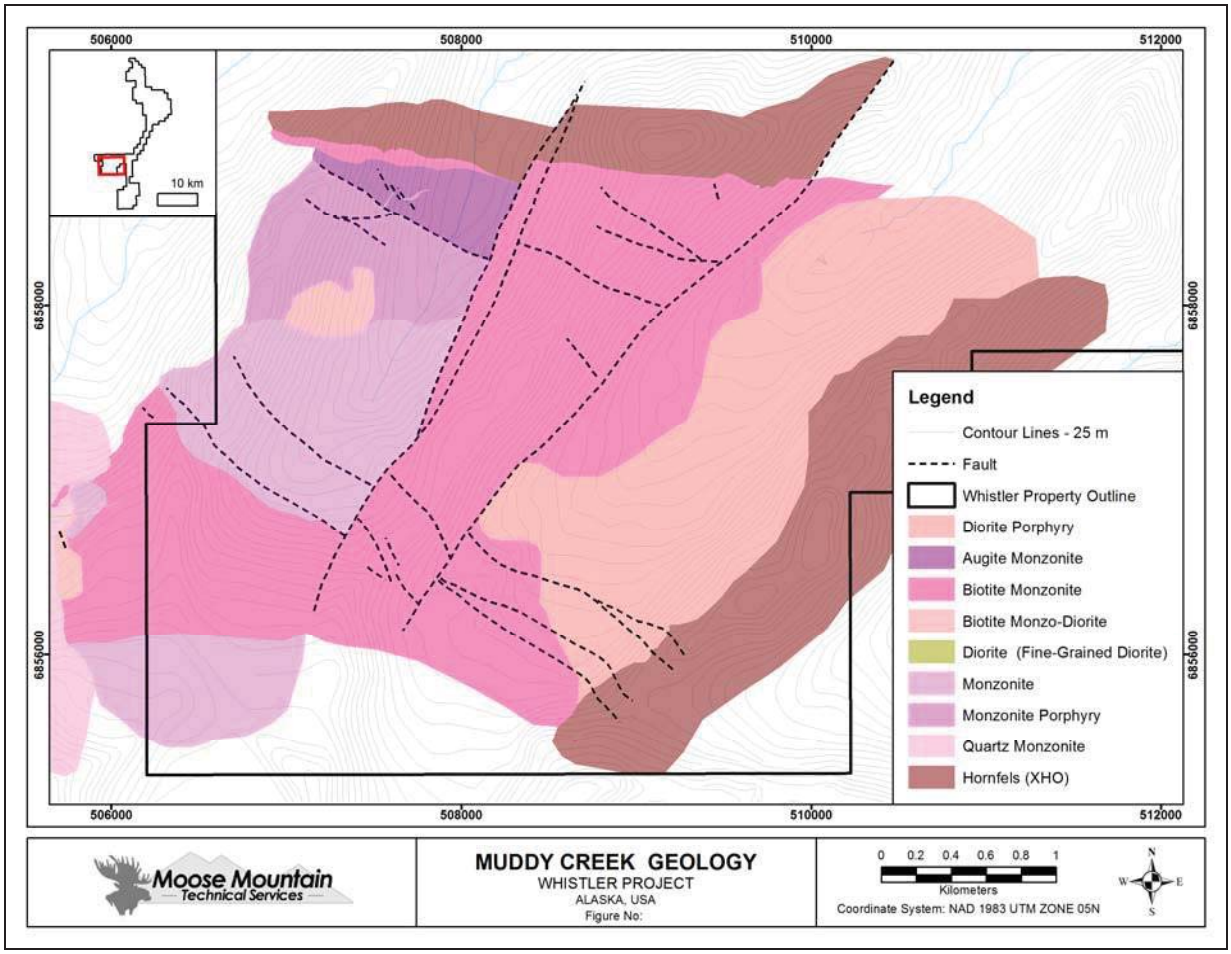


Figure 7-6 Geological Map of Muddy Creek (2015). Modified from Roberts, 2011c.

7.3 Mineralization

Exploration on the Whistler Project by Kennecott, Geoinformatics and Kiska has identified three primary exploration targets for porphyry-style gold-copper mineralization. These include the Whistler deposit, Raintree West, and the Island Mountain Breccia Zone (Figure 7-7). The Whistler and Island Mountain areas also host multiple secondary porphyry-like prospects defined by drilling, anomalous soil samples, alteration, veining, surface rock samples, induced polarization chargeability/resistivity anomalies, airborne magnetic anomalies and airborne electromagnetic anomalies. These include the Raintree North, Rainmaker, Round Mountain, Puntilla, Snow Ridge, Dagwood, Super Conductor, Howell Zone and Cirque Zones. The Muddy Creek area represents an additional exploration target with the potential to host a low-grade, bulk tonnage, Intrusion-Related Gold mineralization.

BRI is currently conducting a technical review of the secondary porphyry-like targets to ascertain their exploration potential and prioritize these targets for future exploration programs.

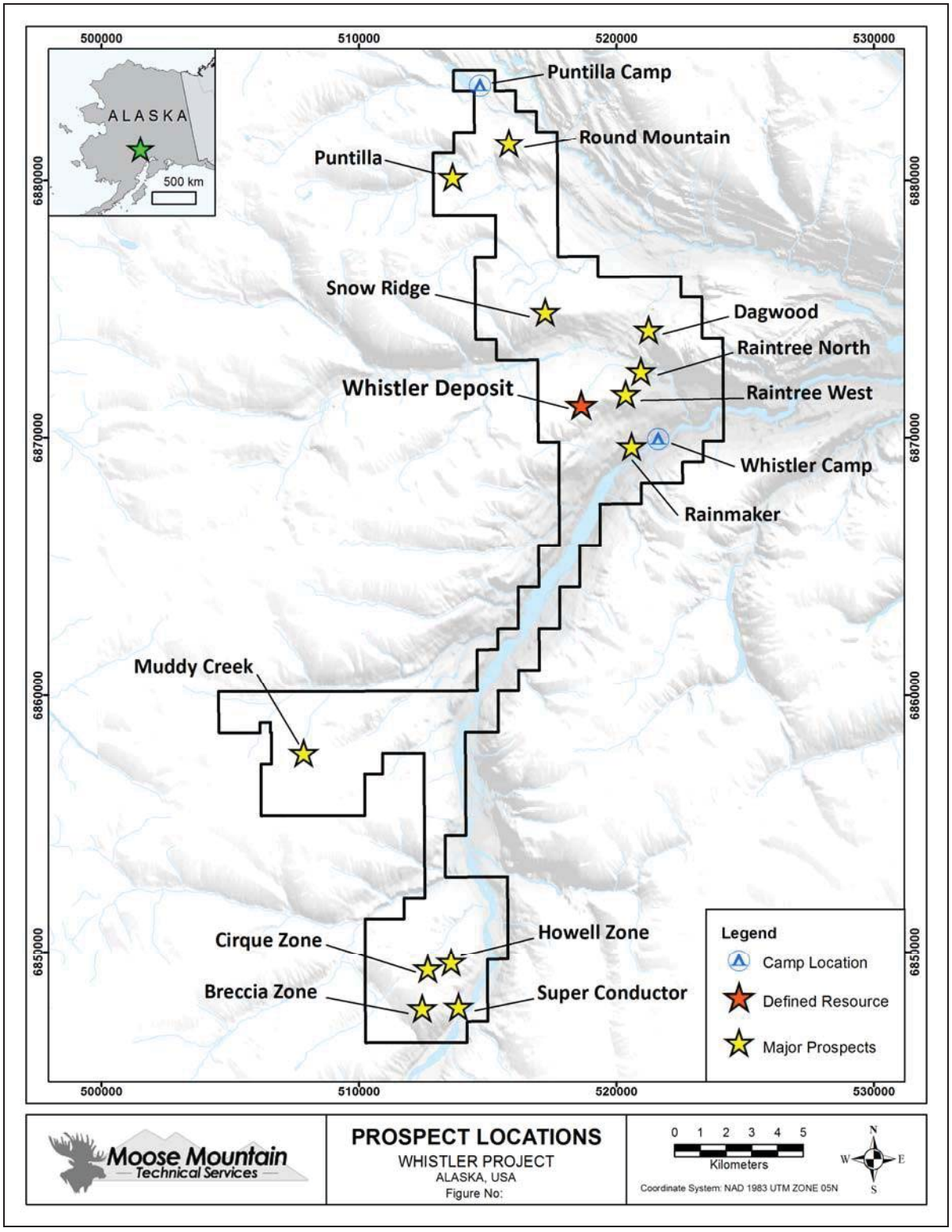


Figure 7-7 Prospect Areas (2015)

7.3.1 Whistler Area and Whistler Deposit Mineralization Overview

The Whistler Deposit and prospects in the Whistler Area (Raintree West, Raintree North, Rainmaker) display a common pattern of alteration, vein paragenesis, and mineralization styles that suggest these spatially separate porphyry centres share a common genetic association. These features are hosted by, and genetically linked to, pulses of diorite porphyry intrusive bodies that are nested in pipe-like centres. Geophysical inversion models of the airborne magnetic data suggest that these pipes may be cupolas that occur above a common batholith. That these porphyry centres are genetically associated is corroborated by common alteration assemblages, vein types, mineralization styles and paragenetic relationships. At the Whistler Deposit, the earliest Diorite Porphyry phase (Main Stage Whistler Diorite Porphyry) is associated with the main stage of gold-copper mineralization, whereas subsequent phases are less mineralized, and thus are either weak metal contributors or diluting bodies.

The earliest recognized alteration event recognized at the Whistler Deposit and the porphyry prospects in the Whistler Area, referred to as “Magnetite” alteration, occurs as patchy magnetite alteration of mafic minerals (dominantly hornblende and possibly pyroxenes) and narrow, irregular magnetite veinlets (M-veins). Magnetite in this event is occasionally intergrown with trace chalcopyrite. This stage may include the partial replacement of feldspars by secondary K-feldspar, particularly in the selvages to M-veins, and hence may be part of the earliest, weakest stage of Potassic alteration (see below). This stage is recognized in both the Main Stage and Intermineral Stage Diorite Porphyry generally in the core zone of mineralization at the Whistler Deposit. In addition, it has been observed to occur within andesitic volcanic and volcaniclastic rocks within 50m of similarly altered diorite intrusions in the Whistler Area, however not within the Feldspathic Sandstones that host the Whistler Deposit.

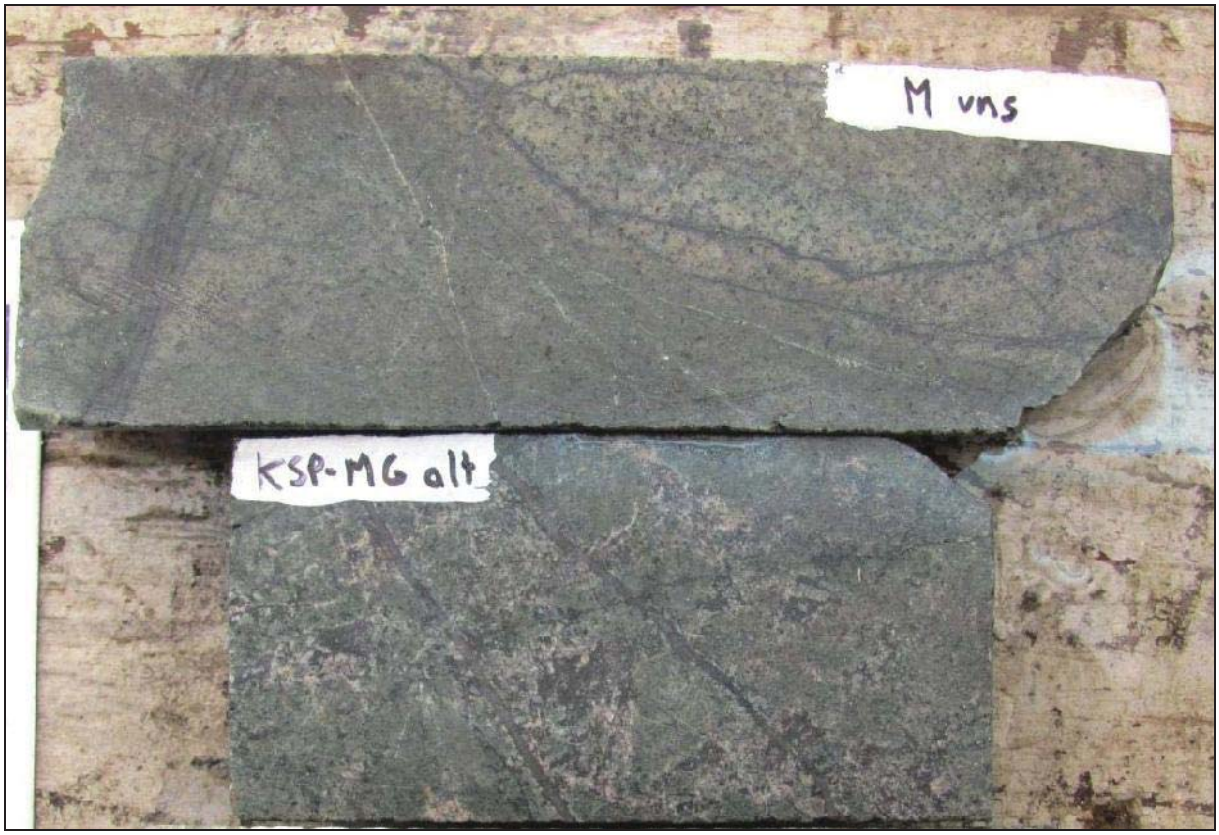


Figure 7-8 Photo of irregular M-veins in dark magnetite alteration of mafics (upper) and pervasive pink-black blotchy k-feldspar and magnetite alteration (lower) with wormy quartz + magnetite + chalcopyrite A-veins (Whistler Deposit)

The subsequent stage of alteration is "Potassic" alteration, defined by the occurrence of pinkish K-feldspar replacing plagioclase and matrix, which generally occurs as halos to, or pervasively in zones of, A-style and B-style quartz veins. Potassic alteration also includes the replacement of mafic phases by fine-grained secondary "shreddy" biotite, however this is generally difficult to observe due to overprinting Chlorite-Sericite alteration (see below). Strong Potassic alteration (pink rock) is generally accompanied by strong patchy magnetite alteration, and overall this leads to strong textural destruction such that the rock is mottled pink-black without an obvious porphyritic texture. Potassic alteration is associated with the bulk of gold-copper mineralization, which occurs as chalcopyrite and rare bornite in A- and B-style quartz veins and as fine-grained disseminations in adjacent wall rock. At the Whistler Deposit, gold occurs predominantly as electrum associated with chalcopyrite. There exists a spectrum of A- and B-style quartz veins. A-veins are millimetre wide, sugary quartz ± magnetite with wormy margins. These are generally observed to cut M-veins, however occasional M-veins have been seen to transition into A-like quartz veins. B-veins are generally comprised of slightly coarser, equigranular quartz with centre-line septa of chalcopyrite, and have straight sides. Intense zones of B-style veining form strong stockwork zones are associated with high-grade zones (>1 gpt Au, >0.5% Cu). Potassic alteration and quartz veining may include minor pyrite, yet these zones have relatively low total sulphide content (<1-2%).



Figure 7-9 Photo of a classic B-style quartz vein with a chalcopyrite-filled centre-line cutting an irregular, wormy A-style quartz vein (Whistler Deposit, WH 08-08, ~123.0m)

In general, core zones of Potassic alteration and Au-Cu mineralization are partially to completely overprinted by "Chlorite-Sericite" alteration, This "green rock" alteration is ubiquitous and the most macroscopically obvious alteration in zones of Au-Cu mineralization, even though it is a later event. Here, bright green chlorite replaces secondary biotite and any primary mafic phases remaining, and waxy green sericite replaces feldspars. Pyrite is part of this assemblage, partly replacing mafics and magnetite. Calcite or carbonate may be part of this assemblage, as well as trace epidote. Kennecott referred to this alteration assemblage as "Intermediate Argillic", which is also equivalent to SCC alteration in the porphyry literature (see Sillitoe, 2010). Kiska interprets Chlorite-Sericite alteration to be transitional to "Phyllic" alteration, overprinting (telescoping) and immediately peripheral to core zones of mineralization. This pervasive style of alteration is not obviously associated with any veining event, however there is a continuum of glassy quartz veins with pyrite>>chalcopyrite + molybdenite that appears to only occur in zones of Chlorite-Sericite and Phyllic alteration.

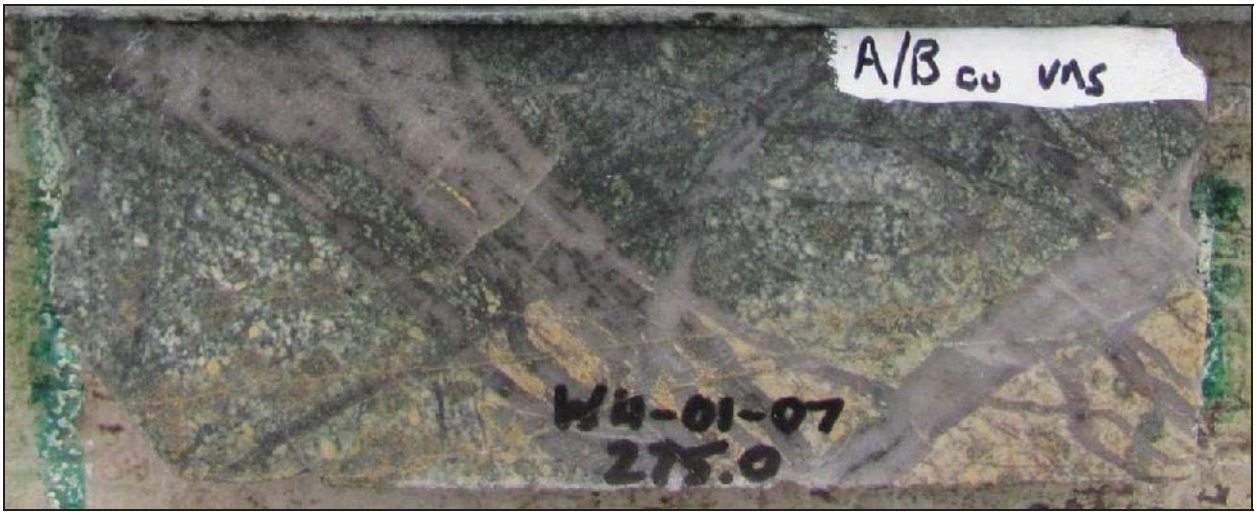


Figure 7-10 Photo or chlorite-sericite (+calcite) alteration overprinting potassic – magnetite alteration in a zone of quartz vein stockwork, subsequently cut by later Dpy veinlets with sericitic and iron-carbonate halos (Whistler Deposit)

Potassic and Chlorite-Sericite alteration is variably overprinted by "Phyllic" alteration. The Phyllic assemblage consists of sericite + pyrite + quartz. Moderate to strong Phyllic alteration is typically bleached grey-tan, where mafic minerals are completely to strongly replaced by sericite and pyrite, magnetite is replaced by pyrite, and feldspars are replaced by sericite (and clays). Phyllic alteration commonly occurs in halos to pyritic stringers (Dpy) and quartz + pyrite veins (D-veins). In areas with intense D-style veining, phyllic halos coalesce to give pervasive Phyllic alteration. Strong to intense Phyllic alteration is texturally destructive, which often leads to difficulty in distinguishing intrusive from volcanic rocks. It is also suspected that intense Phyllic alteration is grade-destructive. At the Whistler Deposit and other prospects Phyllic alteration forms an outer and upper, commonly gradational halo to Chlorite-Sericite alteration, and is also preferentially developed in structural zones, including faults and hydrothermal breccias. Hydrothermal breccias commonly occur along the boundaries of different units (sediment/diorite; volcanic/diorite; diorite/diorite) and are comprised of variably milled wallrock fragments cemented by quartz-sericite-pyrite ("pyritic rock flour breccias"). These breccias occasionally contain tourmaline.

In the Whistler Area, strong Phyllic alteration and high pyrite content (10-15%) is common peripheral to individual porphyry centres extending for hundreds of metres into surrounding volcanic rocks. This has led to significant demagnetization of the volcanic stratigraphy such that the magnetic signature in the Area is a function of alteration (dominantly Phyllic) rather than primary rock types. In contrast, the Phyllic halo at the Whistler Deposit only extends 50m into the surrounding Feldspathic Sandstone. In addition to pyrite, porphyry centres in the Area are also large sulphur anomalies, in the form of sulphates. Anhydrite appears to span several alteration and vein types: anhydrite occurs within B-type quartz-chalcopyrite veins and within cross-cutting D-veins and Dbm veins (see below). Fine-grained anhydrite, of an uncertain alteration affiliation, also replaces feldspars at the microscopic scale. Gypsum locally replaces vein anhydrite and also occurs as very narrow and abundant hairline veinlets in zones of strong to intense and pyritic phyllic alteration.

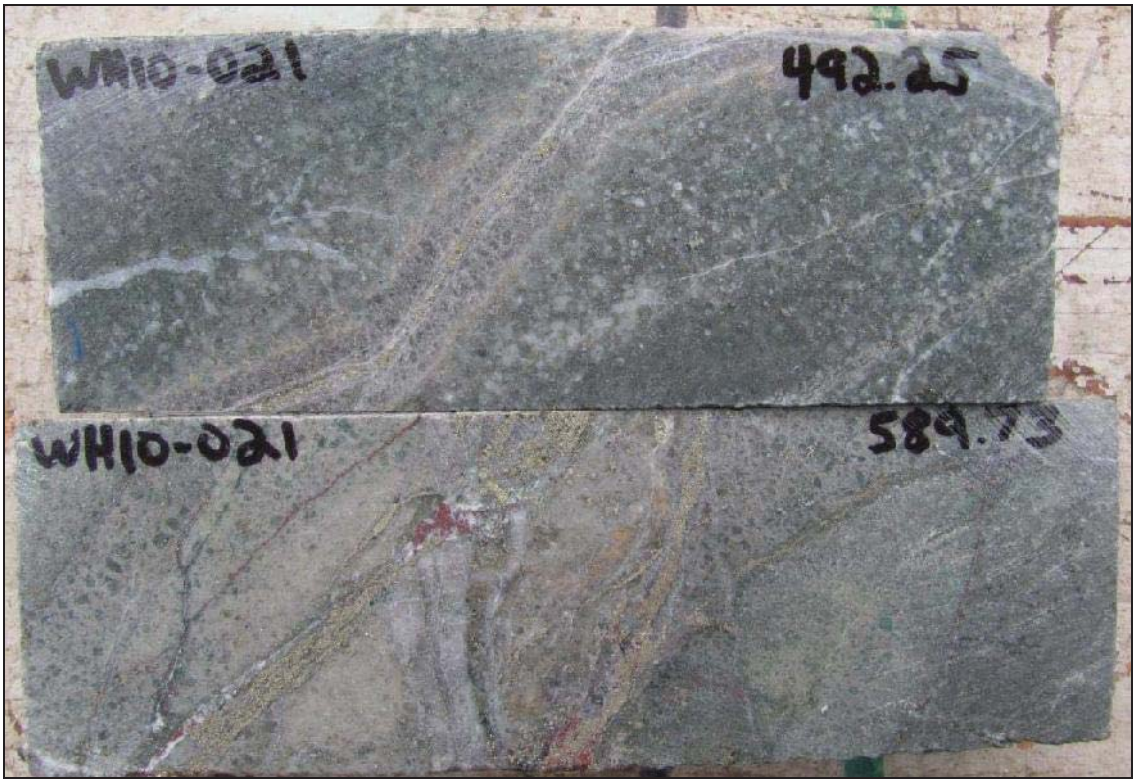


Figure 7-11 D-style pyrite veins with well-developed phyllic halos (Whistler Deposit), that cut and off-set B-style quartz veins (lower sample). Also note the local occurrence of hematite at the intersection of both vein types (magnetite>hematite?)

At the Whistler Deposit and other prospects in the Whistler Area, the latest stage of precious and base metal mineralization is associated with quartz-carbonate (dolomite and calcite)-sphalerite-galena ± chalcopyrite veins (Dbm for D-base metal veins). These veins have been observed to cut Potassic and Chlorite Sericite alteration (including Au-Cu mineralization and A- and B-vein stockwork), Dpy and D veins, and sericite-quartz-pyrite cemented hydrothermal breccias. In the Whistler Area, these veins are commonly most abundant in the outer, intense phyllic halo within volcanics rocks within 100-200m of the diorite intrusive centres. The veins can range from narrow veins (0.5-1cm wide) up to 2-5 metre wide (generally as vein breccias). Veins minerals, including sulphides, are medium to very coarse-grained (Figure 7-12), have local colliform banding, and vein quartz is occasionally chalcedonic. Based on their cross-cutting relationships, textures, mineralogy and spatial relationship to porphyry centres, these veins are interpreted to have formed syn-to post-Phyllic stage alteration. That these veins typically cut phyllic-stage hydrothermal breccias and have open-space fill colliform banding, suggests that these veins formed in a much different hydrologic/structural regime (hydrostatic, possible incursion of meteoric waters) relative to Magnetite through to Phyllic events. Relative to the Whistler Deposit, these veins are much more abundant in the host rocks to porphyry centres in the volcanic-hosted prospects in the Whistler Area, particularly Raintree West. This observation, in addition to the epithermal-like textures of these veins, supports the notion that porphyry centres in the Area may have formed at shallower stratigraphic levels compared to the Whistler Deposit.



Figure 7-12 Photo of quartz-carbonate vein from Raintree West (WH11-030) showing well-developed colliform banding and coarse-grained sphalerite and galena

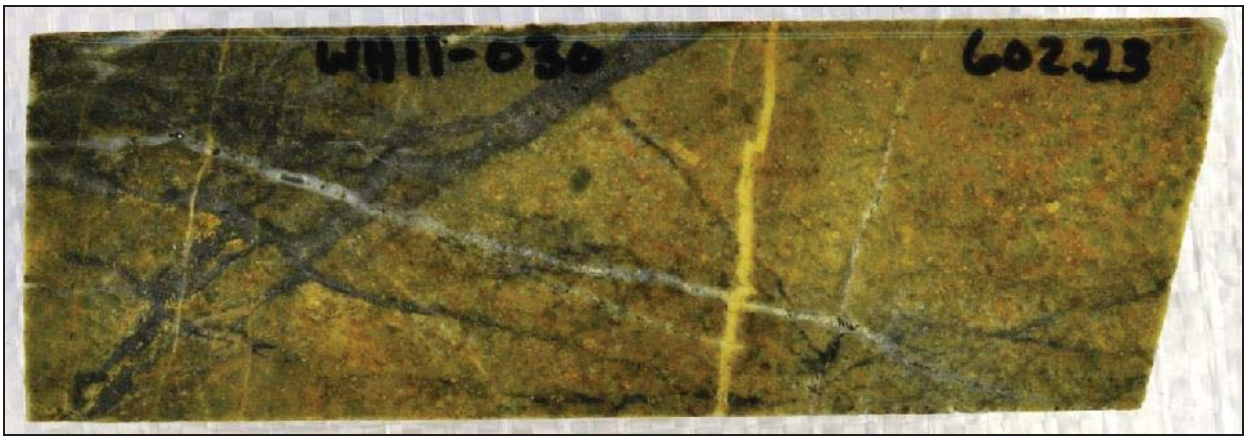


Figure 7-13 Common vein paragenesis in all porphyry occurrences in Whistler Area: dark grey quartz vein stockwork with chalcopyrite (A- and B-style), cut by quartz-calcite-carbonate-sphalerite-galena veinlet (Dbm veins, top left down to bottom right), cut by narrow Fe-carbonate veinlets with Fe-carbonate alteration halos (Raintree West example)

The most significant style of post-mineral alteration is Fe-carbonate alteration. This occurs as pervasive alteration of feldspars in structural zones and as selvages to ankerite veins. Primary igneous magnetite and secondary magnetite is commonly altered to hematite in these zones. Ankerite veins, typically as brittle tension gashes, cross-cut all vein styles, including the Dbm veins. The degree and extent of this style of alteration is typically not obvious until the core has weathered for a year or more, and is therefore not well-documented in the core logs.

7.3.2 Mineralization: Whistler Deposit

Gold and copper mineralization at the Whistler Deposit is hosted by a Late Cretaceous, multi-phase diorite porphyry intrusive complex that intrudes the Feldspathic Sandstone unit of the Kahiltna assemblage (Figure 7-14). The Feldspathic Sandstone is comprised of sandstone with minor interbeds of mudstone, siltstone and conglomerate. Sedimentary bedding in the vicinity of the deposit primarily strikes to the northeast and dips steeply to the northwest.

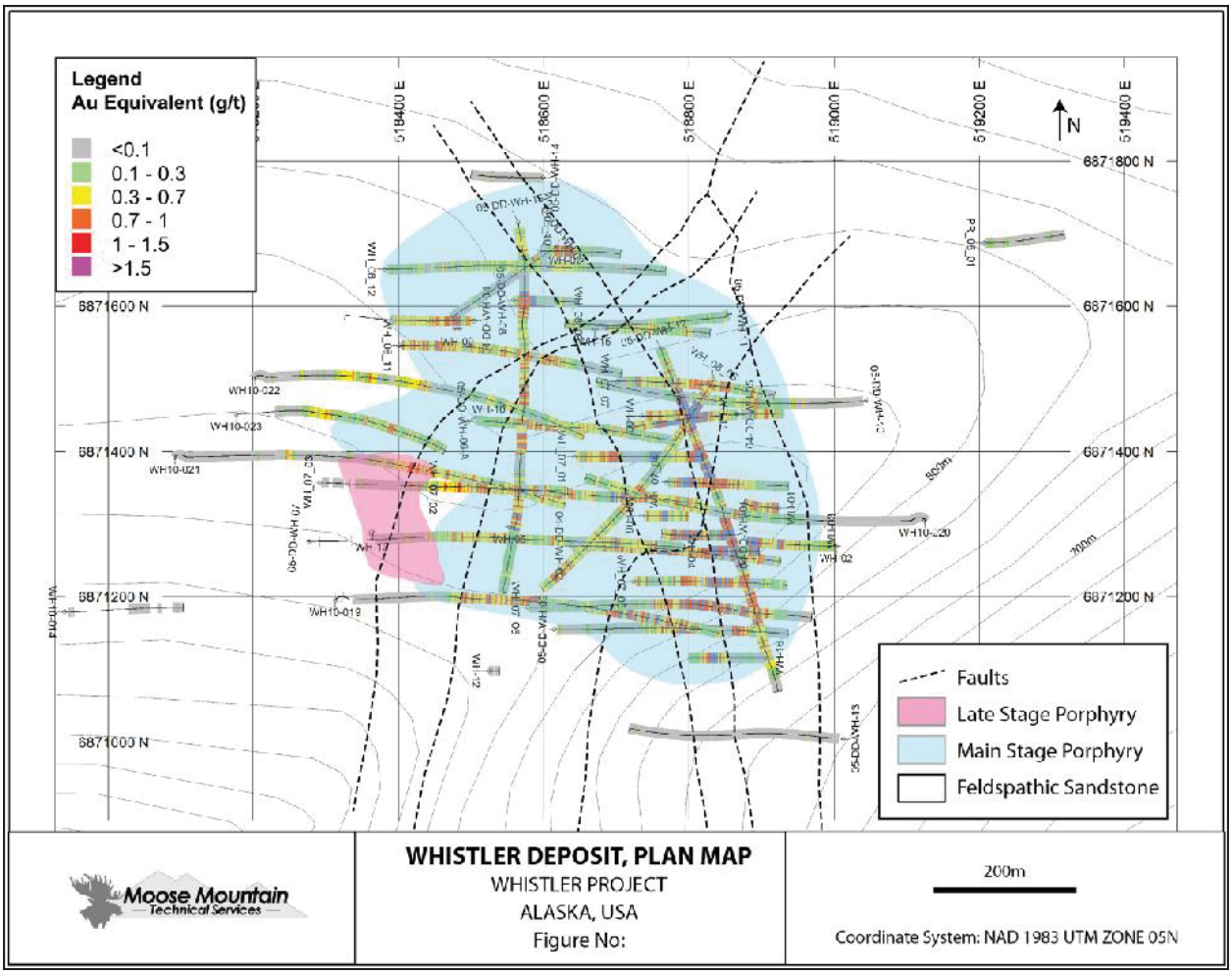


Figure 7-14 Geological Map of the Whistler Deposit (2015). Modified from AMC, 2012.

The diorite porphyry intrusive complex is ovoid-shaped and vertically plunging (
Figure 7-16). The long axis of the ovoid is 700 metres long and oriented in a northwest-southeast direction. The short axis of the ovoid is 500 metres wide and oriented in a northeast-southwest direction. Deep drilling indicates that the intrusive complex is open below a depth of 800 metres from surface.

As described in the historical resource report MMTS 2011, the intrusive complex is composed of at least three diorite porphyry phases that are compositionally and texturally similar: they are comprised of 60-80%, euhedral to subhedral blocks of plagioclase feldspar phenocrysts (0.2-3.0mm diameter), 5-20% hornblende laths (0.2-3.0mm) that are usually altered to sericite, chlorite, pyrite, or a combination of these, and a fine grained, granular groundmass of feldspar and minor quartz, that is usually altered to silica, chlorite, sericite, clay or potassium feldspar. In places within the deposit, three intrusive phases are recognized on the basis of cross-cutting relationships with mineralization and alteration. The oldest intrusive phase, the "main stage diorite porphyry", carries the earliest recognized veining and alteration associated with gold-copper mineralization (see below); the second phase, the "inter-mineral diorite porphyry" is recognized where it clearly cuts main stage diorite porphyry mineralization (i.e. intrusive contact cutting mineralized veins), and is itself veined and mineralized. The third and youngest phase, the "late stage diorite porphyry" is barren except for local mineralized xenoliths of main or inter-mineral porphyry.

Due to the compositional and textural similarity of the main stage and inter-mineral stage porphyries and hence the difficulty in consistently identifying these stages in areas that lack clear cross-cutting relationships with mineralization or alteration, Kiska geologists modeled these phases as a single mineralized porphyry unit. For consistency these phases are therefore referred to as the "Main Stage Porphyry". Further re-logging of drill core and future in-fill drilling may be able to clearly and consistently differentiate these phases.

The Main Stage Porphyry ("MSP") comprises the bulk of the volume of the intrusive complex and is cut by the Late Stage Porphyry. This latter phase clearly post-dates mineralization and truncates grade. It occurs as narrow, sub-vertical dykes and pencil-like bodies, generally 2 to 10 metres wide but up to 150 metres wide on the north and western edges of the MSP. This phase generally has strong pervasive phyllic alteration, and occasionally xenoliths or rafts of the MSP, which locally contribute grade.

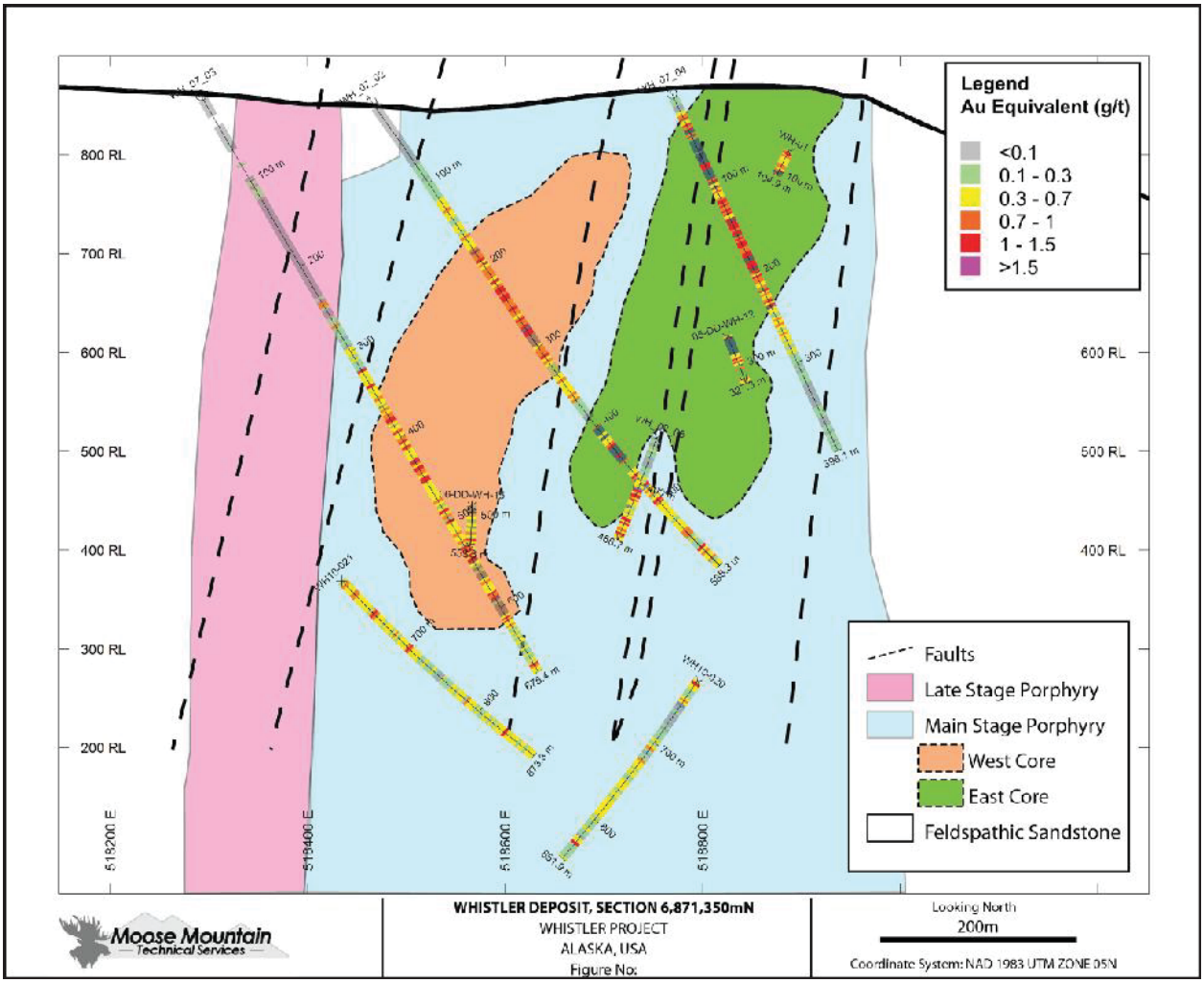


Figure 7-15 Geological Cross-section (6,871,350mN) of the Whistler Deposit (2015). Modified from AMC, 2012.

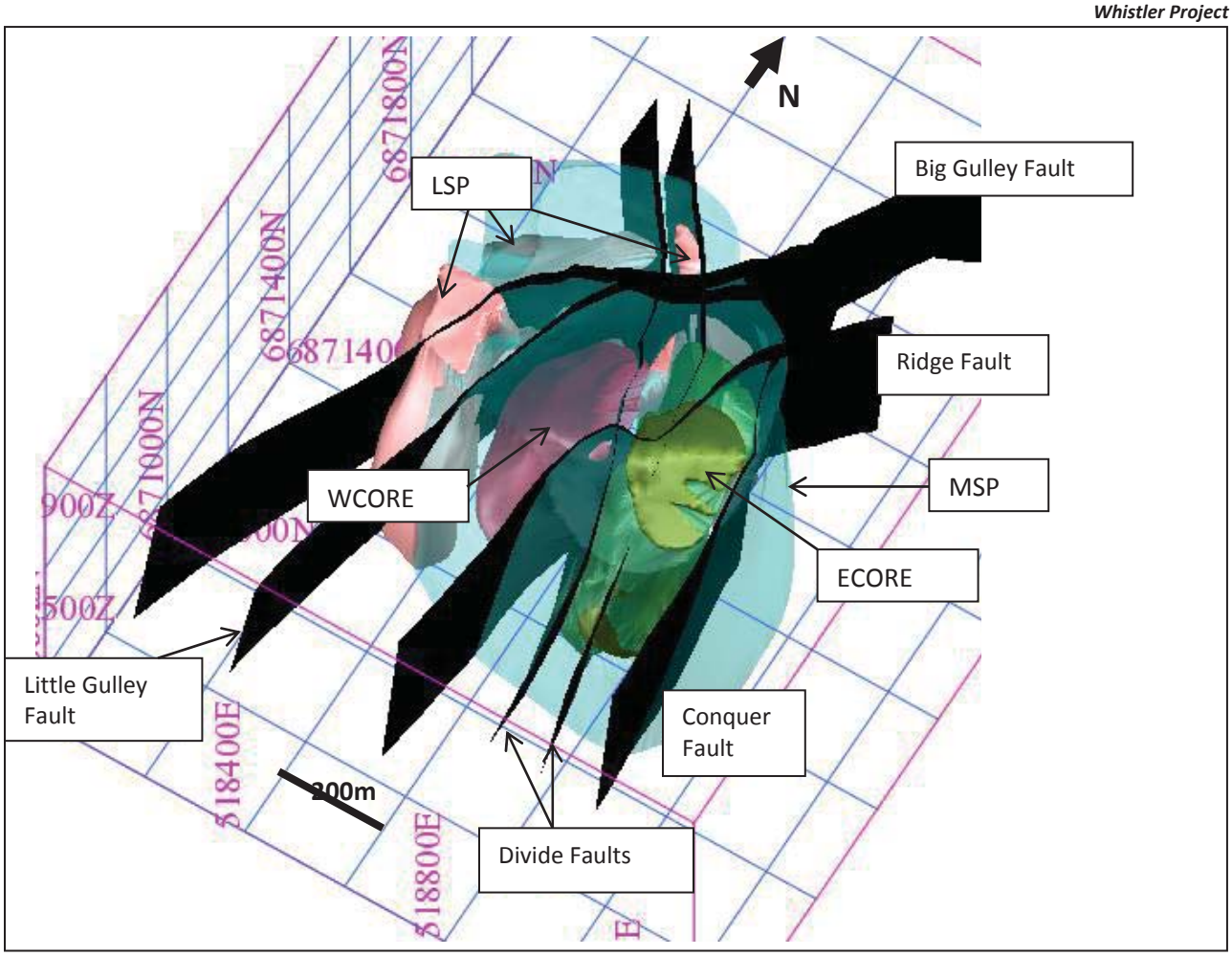


Figure 7-16 Oblique view of geological domains and faults at the Whistler Deposit (the host Feldspathic Sandstone is not shown) (2015). Modified from AMC, 2012.

Gold and copper mineralization in the Main Stage Porphyry is comprised of 1-3% chalcopyrite and trace bornite as grains within magnetite and quartz veins (see below) and as disseminations in the host porphyry generally within the halos to these veins. Petrography indicates that gold occurs predominantly as electrum associated with chalcopyrite (Petersen, 2004). This mineralogy and style of mineralization is typical of diorite-hosted gold-copper porphyry deposits (Sillitoe, 2010).

Recent, preliminary modeling has identified two zones within the MSP which should be incorporated with further resource modeling. These zones of gold-copper mineralization occur in two areas within the Main Stage Porphyry: the East Core (ECORE) and West Core (WCORE) domains (
Figure 7-16). These domains are interpreted as discrete, near-vertical, ovoid-shaped fluid flow conduits (interconnected vein networks) that delivered and trapped the bulk of the metals in the MSP. The ECORE is defined by coincident 0.40 gpt gold and 0.20% Cu grade contours and extends approximately 500 metres in the north-south dimension, 250 metres in the east-west dimension and is 600 metres deep (from surface). The WCORE is defined by a 0.30 gpt gold grade shell with lower and irregular Cu

grades relative to the ECORE. This domain is approximately 400 metres long in the north-south direction, 200 metres wide in the east-west orientation and is 450 metres deep in a vertical dimension starting from 75 metres below surface.

These domains have the highest gold-copper grades relative to the remainder of the MSP domain, yet the boundaries of the ECORE and WCORE domains with the MSP are geologically gradational. Outside of the ECORE and WCORE domains, the MSP lacks any volumetrically significant zones of potassic and magnetite alteration, or significant volumes of mineralized quartz veining. However, wide-spaced drilling in the northern portion of the deposit has encountered gold-copper mineralization association with magnetite and quartz veining, suggesting that further drilling may define other zones of mineralization similar to the ECORE and WCORE.

Both the ECORE and WCORE domains contain inner zones of strong potassic and magnetite alteration (see below), which are dominantly overprinted by pervasive chlorite-sericite alteration and local phyllic alteration. These domains are also defined by the consistent occurrence and highest concentration of magnetite veins (M-veins) and mineralized quartz veins (A- and B-veins). In these domains, mineralized quartz veins generally range in volume from 1 to 5%. Local high grade mineralization within these domains occurs in zones of high density quartz vein stockwork (locally >20% quartz vein volume) and quartz + magnetite + chalcopyrite cemented hydrothermal breccias. Minor 1cm to 10cm wide quartz-carbonate (ankerite and calcite)-barite-sphalerite-galena ± chalcopyrite veins (termed “Dbm” veins) cross-cut mineralized and unmineralized portions of the Main Stage Porphyry and are interpreted as intermediate sulphidation epithermal veins that have telescoped on the porphyry system. These sparse veins contain minor Au, Ag, Pb, Zn, and Cu, yet do not contribute significantly to the economic resource.

The structure of the intrusive complex is not well constrained with the widely spaced drilling. However, five faults that cross-cut the deposit are currently modeled (Figure 7-16): Big Gulley Fault, Little Gulley Fault, Divide Fault, Conquer Fault and Ridge Fault. All of these faults have been modelled based on topographic features, fault textures in drill core intercepts, breaks in the airborne magnetic data (50 metre line-spacing) and breaks in the drill core magnetic susceptibility readings. These faults are generally between 0.5 and 5 metres wide, and display a variety of textures in drill core, included silica and/or carbonate cemented fault breccias, shear textures, clay gouge, brittle fractures and/or a combination of these features. Fault structures in the deposit are commonly associated with narrow zones of strong to intense sericite, clay, pyrite and carbonate alteration. This generally results in the conversion of magnetite to either pyrite and/or hematite, and therefore leads to demagnetization.

The Big and Little Gulley Faults strike to the northeast and dip steeply to the northwest. The strike of these faults is based on a prominent set of northeast-trending gulley’s that traverse the northern portion of the deposit, whereas the dip of the faults is based on drill core intercepts.

The Ridge Fault is a steeply northwest dipping (80° dip), curvi-planar fault that strikes sub-parallel to the Gulley Fault and is coincident with a significant northwest-dipping break-in-slope near the apex of the Whistler Ridge. The irregular strike of the fault is modelled based on a best fit between faults in drill core and an axis of demagnetization along this fault from the magnetic susceptibility data. Based on the staircase geometry of topography downwards across the Gulley and Ridge faults to the northwest, Kiska

geologists interpret these faults as possible normal faults with upper plate blocks downs to the northwest. These faults do not appear to truncate Au-Cu grade, and hence they have not been modelled as hard boundaries. The actual sense of motion and amount of potential offset across this fault zone is unknown.

The Divide Fault (modelled as two strands) and the Conquer Fault are northwest-striking faults that dip steeply to the southwest (70-80° dip). These faults are modelled based on drill core intercepts and prominent breaks in the downhole magnetic susceptibility readings. These faults likely comprise strands within a fault zone. Where these faults intersect the Gulley and Ridge faults, the latter have a kinked geometry suggesting possible right-lateral offset of approximately 25-50 metres.

All of these faults generally show evidence that the latest movement within these faults post-dates mineralization (i.e. clay altered gouge and wallrock overprinting higher temperature alteration assemblages, carbonate-filled tension veins). However, both the ECORE and WCORE occur near the intersection of the Divide and Ridge Faults, suggesting that they may have been active prior to or during mineralization, and hence may have acted as important controls on mineralization.



Figure 7-17 Whistler, WH 08-08, ~122.5m, Quartz Vein



Figure 7-18 Whistler, WH 08-08, ~123.0m, A and B Veins



Figure 7-19 Whistler, WH 08-08, Late Quartz-calcite Vein with Galena and Sphalerite



Figure 7-20 Whistler, WH 08-08, partially leached gypsum-filled fractures

7.3.3 Mineralization: Raintree West

The Raintree West prospect occurs 1800 metres to the east of the Whistler Deposit, just off the nose of Whistler Ridge. This prospect occurs below a thin veneer of glacial till (5 to 15 metres) and hence is not exposed at surface. Outside of the Whistler Deposit, Raintree West is currently the most advanced prospect in the Whistler Area on the basis of drill metres, with a total of 8538 metres since the original discovery hole drilled by Geoinformatics in 2008. The discovery drillhole, RN-08-06, targeted an airborne magnetic high anomaly that is coincident with an IP chargeability high detected on a 2D IP reconnaissance line that crossed the Whistler Area. This hole discovered a significant zone of near surface (below 5 metres of till cover) gold-copper porphyry mineralization (160 metres grading 0.59 gpt gold, 6.02 gpt silver, 0.10% copper).

Mineralization at Raintree West occurs as two main types: 1) early, porphyry-style gold-copper mineralization hosted by diorite porphyry stocks and consisting of quartz and magnetite stockwork veining, with vein and disseminated chalcopyrite associated with potassic alteration, and 2) later cross-cutting silver-gold-lead-zinc mineralization in quartz-carbonate veins (Dbm) that contain pyrite, sphalerite, galena and chalcopyrite, with occasional banded epithermal-like textures. The early gold-copper mineralization is best developed within, and controlled by, early diorite porphyry intrusions (akin to Main Stage Porphyry at the Whistler Deposit), whereas the later silver-gold-lead-zinc veins surround and locally overprint the porphyry mineralization, and are most abundant in the host volcanic rocks in zones of strong to intense phyllic alteration vertically above and adjacent to the diorite porphyries. In places, 25m to 50m wide diorite porphyry dykes cut both types of mineralization and are barren (akin to Late Stage Porphyry at the Whistler Deposit).

Current drilling at Raintree West has defined two significant zones of gold-copper porphyry mineralization: 1) a near surface zone on the east side of the Alger Peak fault; and 2) a deep zone on the west side of the fault (Figure 7-21).

The near surface porphyry gold-copper mineralization is coincident with a northwest-elongate airborne magnetic high anomaly that measures 250 metres long and 150 metres wide, which pinches to the northwest and southeast. Drilling has only intersected this mineralization on two 100 metre-spaced east-west sections (6,871,350mN and 6,871,450mN). Gold-copper mineralization occurs from the top of bedrock to a maximum depth of approximately 170 metres, where it is either truncated by post-mineral diorite porphyry intrusions or faulting, and has a true width of approximately 150 metres. Gold-copper mineralization is closed to the north, and potentially open to the south, however grade diminishes and the airborne magnetic high anomaly pinches out just south of the most southerly hole (WH10-025).

The deep zone of porphyry gold-copper mineralization on the west side of the fault has a maximum apparent width and vertical extent of 300 by 300 metres at its widest (6,871,650mN), is open to depth, and occurs at its shallowest at 470 metres below surface. This deep zone of mineralization can be traced along a northwest-trending strike extent for at least 325 metres where it appears fault bound to the northwest and is open to depth to the southeast. The mineralization is essentially blind to the airborne magnetic data and the 3D IP due to the limited depth penetration of these techniques.

True widths of the gold-copper porphyry mineralization at both the shallow and deep portions of the Raintree West Prospect are estimated to vary between 50% and 100% of drilled widths and are based on the interpreted geometry of the earliest diorite porphyry host rocks; precise estimates of true widths are hindered by the low density of drilling and a lack of detail regarding the geometry of the mineralized porphyry intrusions and later barren dykes and offsetting faults. True widths of silver-gold-lead-zinc mineralization are uncertain due to the irregular nature of this style of mineralization in the volcanic rocks.

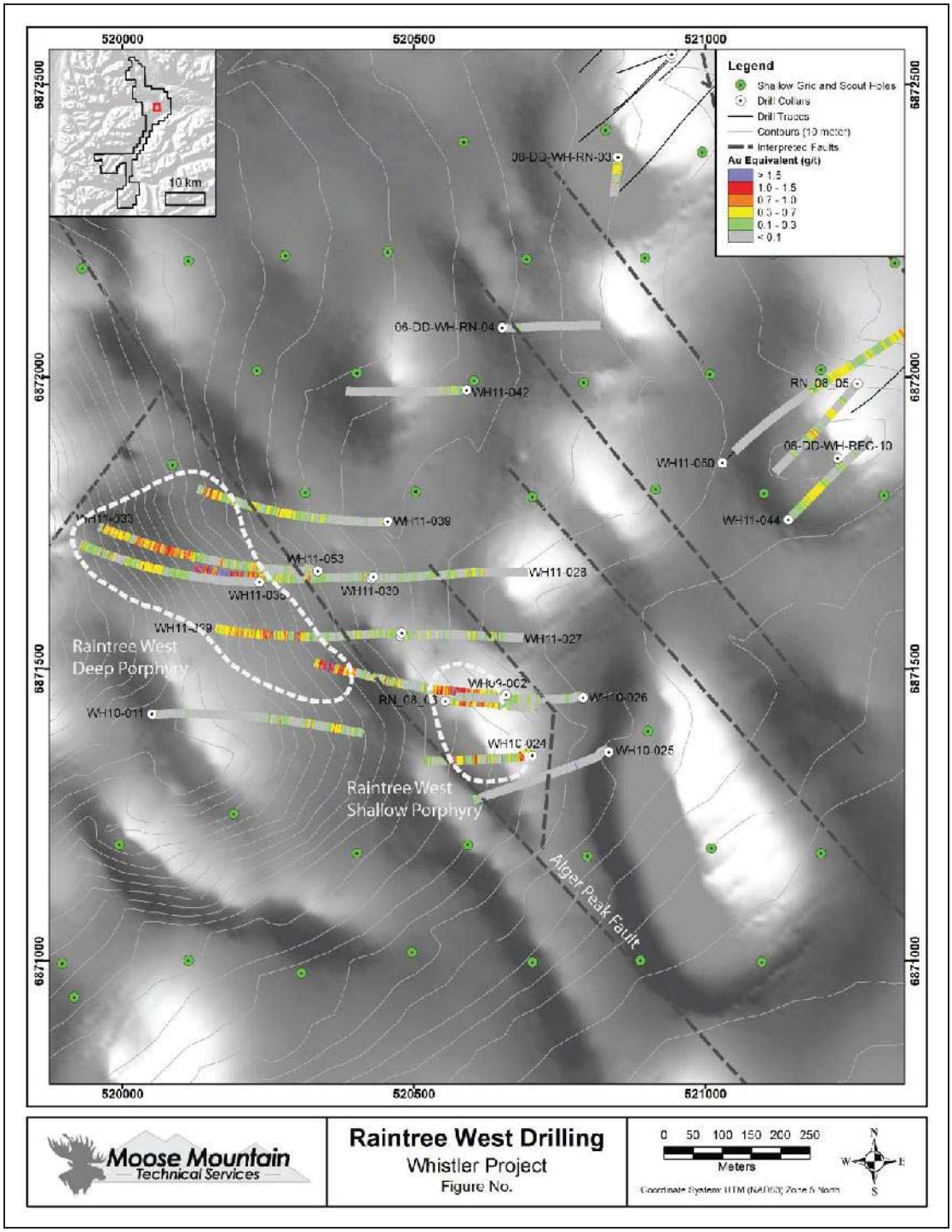


Figure 7-21 Plan Map of the Raintree West Prospect on a Background of greyscale airborne magnetic data, (magnetic high anomalies shown as lighter shades of grey) (2015). Modified from Roberts, 2011a.

7.3.4 Mineralization: Island Mountain

The Island Mountain prospect area is host to several mineralized zones interpreted to represent a cluster of individual porphyry centres within this large intrusive complex. These include the Breccia, Cirque and Howell Zones, and other prospects defined by surface geochemistry and geophysical anomalies that require further field assessment. Recent exploration activity and the majority of diamond drilling by Kiska have concentrated on mineralization associated within the Breccia Zone on the southwest slope of Island Mountain. Here, at least three styles of significant gold and copper mineralization are currently recognized: 1) gold-copper mineralization hosted by k-feldspar altered monzonitic intrusive breccia, 2) gold-copper mineralization hosted by intrusive and hydrothermal breccias associated with strong sodic-calcic alteration, and 3) gold-only mineralization associated with vein and disseminated pyrrhotite ("pyrrhotite-gold").

At the Breccia Zone, the first two styles of mineralization occur within a 300m diameter, sub-circular, sub-vertical breccia pipe, which appears to have been a conduit for inter-mingled intrusive and hydrothermal breccias hosted by the Diorite Porphyry. Gold-copper mineralization hosted by the k-feldspar altered monzonitic intrusive breccia is volumetrically smaller than the subjacent hydrothermal breccias and is interpreted as being the earliest stage of mineralization, since this breccia body is cut by actinolite veinlets. Mineralization is associated with trace to 2% disseminated chalcopyrite in the k-feldspar altered intrusive cement of the breccia.

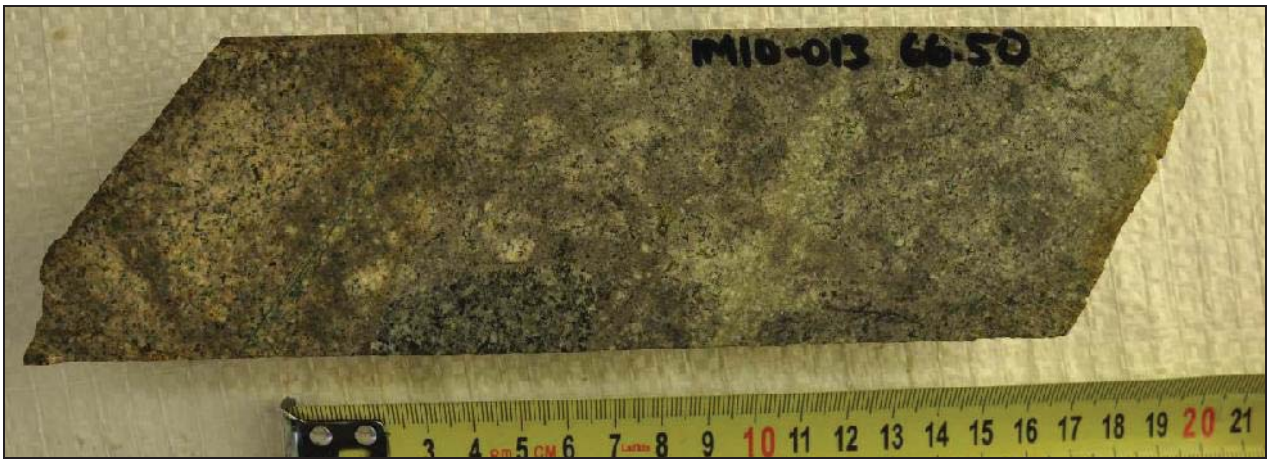


Figure 7-22 Photo of monzonite-matrix intrusive breccia with patchy albite alteration, silicification and disseminated chalcopyrite

The bulk of gold-copper mineralization at the Breccia Zone is hosted by intrusive and hydrothermal breccias with strong sodic-calcic alteration with pyrrhotite as the predominate sulphide and trace to 1% chalcopyrite. Chalcopyrite is most abundant in the matrix of the hydrothermal breccias and is commonly intergrown with pyrrhotite and actinolite ± magnetite. Pyrrhotite, ranging from 1 to 5%, occurs as disseminations within the breccia matrix and as large blebs cementing the matrix. The deportment of gold in the breccia zone is not known. Weaker gold-copper mineralization extends 50-75 metres beyond the breccia zone and is associated with actinolite stockwork veining.



Figure 7-23 Photos of various textures of actinolite-magnetite hydrothermal breccia (BXMA), showing strong albitization in monomict breccia (left), pyrrhotite matrix in polymict breccia (right)

Gold-only mineralization in the Breccia Zone (referred to as "Pyrrhotite-Gold" mineralization) occurs 100-200 metres peripherally to the intrusive-hydrothermal breccia body and occurs in association with vein and disseminated pyrrhotite within the Diorite Porphyry. Pyrrhotite veins occur in irregular, possibly sheeted sets, and are typically 1-10 millimetres wide and have pyrrhotite-rich (up to 15-20%) net-textured vein selvages (i.e. replacing the igneous matrix of the Diorite Porphyry). Petrography and SEM studies indicate that gold occurs as electrum intergrown within and marginal to pyrrhotite grains. The orientation and continuity of these veins is currently undefined.

The relationship between the breccia-hosted gold-copper mineralization and the pyrrhotite-associated gold-only mineralization is not fully understood. The current working hypothesis is that the gold-copper and gold-only mineralization are associated with the same hydrothermal fluid, such that copper was precipitated in the hotter parts of the system within the hydrothermal breccia, and copper-depleted, gold-bearing fluids persisted into cooler, structural zones beyond the breccia and were subsequently precipitated (Rowins, 2011).

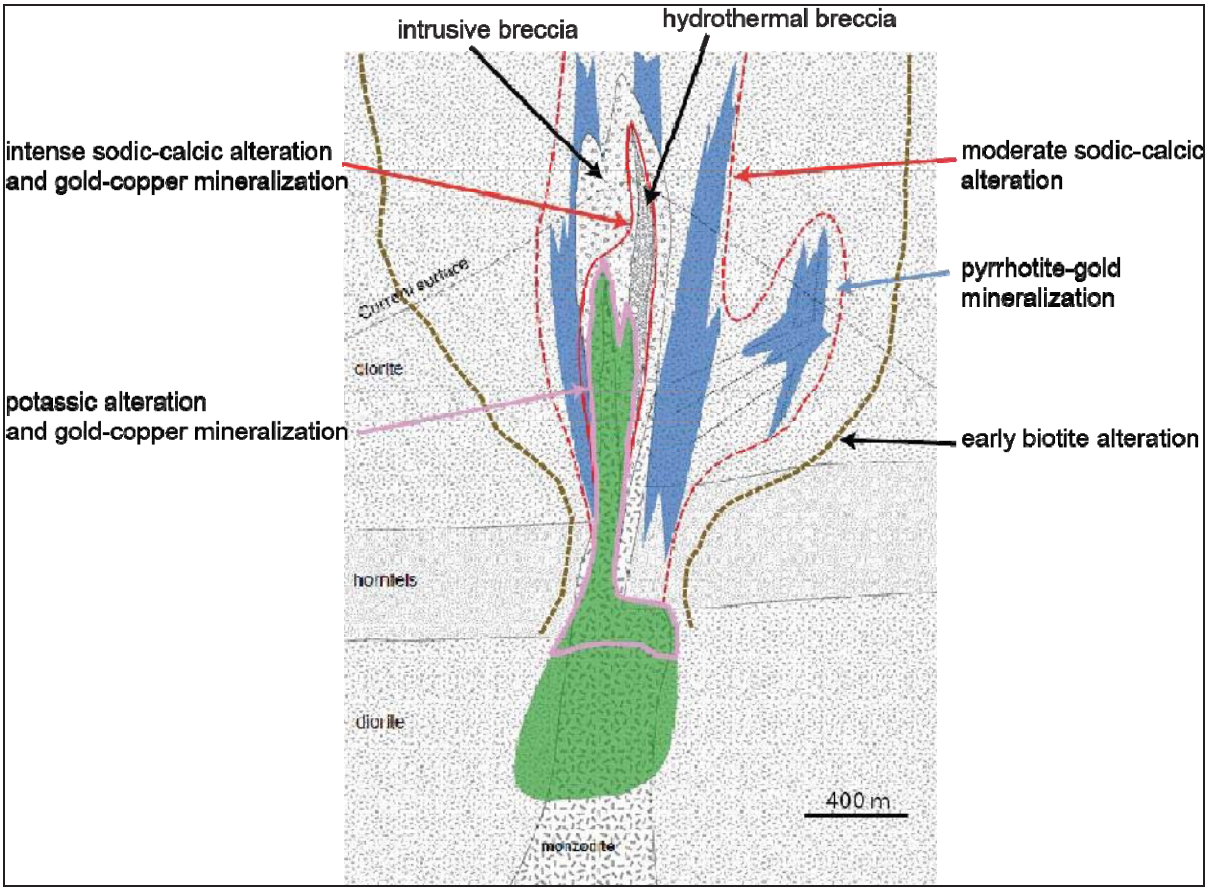


Figure 7-24 Schematic Model of Breccia Zone Alteration and Mineralization. From Roberts, 2011b.

7.3.5 Mineralization: Muddy Creek

Gold mineralization at Muddy Creek is hosted throughout the core of the plutonic complex and is controlled by northwest-striking and steeply southwest-dipping, mm- to locally cm-wide veinlets of sulfides and quartz, manifest as rusty-weathering sub-parallel fracture sets, commonly spaced a metre or more apart (Figure 7-25). These veinlets may contain any combination of chalcopyrite, arsenopyrite, pyrite, stibnite, pyrrhotite and native gold, with minor amounts of galena, sphalerite and molybdenite. Moderate sericitic alteration is typically restricted to cm-wide selvages to these veins, whereas the bulk of the interleaving rock is relatively unaltered and unmineralized. Cone sheets and circular onion skin-type joints that resemble bubbles or mariolites also carry gold mineralization, and elevated gold and copper values are also found in cm-scale pegmatites. Coarse- to very coarse-grained feldspar-quartz pegmatite with chalcopyrite and subordinate molybdenite occur along joint planes and intersections, centered in aplitic dikes and at the cores of circular joint sets or cone sheets. Lastly, massive sulfide veins occur locally along Muddy Creek in hornfelsed sedimentary wall rock. Previous workers report gold in all mineralization types to range from ppm to more than 1 oz/t in select samples (Millholland, 1998).



Figure 7-25 Detail view of Biotite Monzonite Northwest of Muddy Creek, cut by sub-vertical limonite-stained fracture fillings of chalcopyrite-arsenopyrite (~1-3 per metre)

Accessory minerals associated with mineralization in veins include vuggy quartz and K-spar, with greatly subordinate ilmenite, tourmaline, apatite, beryl, and possibly corundum. Unlike most other mineral types of the Whistler region, magnetite is completely absent and the only measurable magnetism in hand samples is imparted by ilmenite and pyrrhotite.

Previous exploration has largely been focused on areas where the vein/fracture density is highest. This includes structural zones near the top of Discovery Creek, Phoenix Creek, Prospect Creek and Muddy Creek that occur along the strike extent of a significant northwest-striking fault zone. Two diamond drillholes drilled by Kiska in 2011 focused on a high density vein/fracture zone at the top of Prospect Creek. Here drilling returned a highlight result of 0.44 gpt gold over 44.2 metres from 297.0 downhole (MC11-002). True widths on mineralization in this area may be approximately 80% of drilled widths, yet the full extent of mineralization down-dip or along strike is unknown due to a lack of drilling.

8.0 Deposit Types

Exploration on the Whistler Project by Kennecott, Geoinformatics and Kiska has identified three primary exploration targets for porphyry-style gold-copper deposits. These include the Whistler deposit, Raintree West, and the Island Mountain Breccia Zone. All of the porphyry prospects in the Whistler Area share similar styles of alteration, mineralization, veining and cross-cutting relationships that are generally typical of porphyry systems associated with relatively oxidized magma series (A- and B-type quartz vein stockwork, chalcopyrite-pyrite ore assemblage, presence of sulphates, core of potassic alteration with well-developed peripheral phyllic alteration zones). The Whistler area also hosts multiple secondary porphyry-like prospects defined by drilling, anomalous soil samples, alteration, veining, surface rock samples, Induced Polarization chargeability/resistivity anomalies and airborne magnetic anomalies. These include the Raintree North, Rainmaker, Dagwood, Round Mountain, Puntilla, Canyon Creek, and Snow Ridge prospects.

In contrast, Island Mountain has significantly different alteration, veining and sulphide assemblages associated with mineralization, principally the occurrence of pyrrhotite and to a lesser extent arsenopyrite associated with Au-Cu mineralization, Au-Cu association with strong sodic-calcic alteration, lack of significant sulphates, very minor hydrothermal quartz and weak to insignificant phyllic alteration. For these reasons, the porphyry system at Island Mountain may belong to the “reduced” subclass of porphyry copper-gold deposits (see Rowins, 2000).

The Muddy Creek area represents an additional exploration target with the potential to host a bulk tonnage, Intrusion-Related Gold deposit. Explorations by Millrock Resources Inc. on claims directly adjacent to the Muddy Creek area, which are geologically analogous, have returned encouraging preliminary results. Like Island Mountain, the Muddy Creek mineralization is distinct from the Whistler Porphyry systems and shares more similarity with Intrusion Related Gold (IRG) systems characteristic of the Tintina Gold Belt. The intrusive complex at Muddy Creek is predominantly monzonitic grading to more mafic marginal phases, yet is generally more felsic in composition relative to the diorites of the Whistler Area. Mineralization is restricted to sheeted vein zones with narrow millimetre scale veinlets and pegmatitic veinlets of quartz, feldspar, tourmaline and sulphides that include arsenopyrite, minor chalcopyrite and pyrite-pyrrhotite. Gold mineralization is largely confined to the minute veinlets whereas the intervening intrusive rocks are largely unaltered and unmineralized.

MMTS considers the deposit type and model for Whistler to be appropriate for a porphyry gold-copper deposit.

9.0 Exploration

A summary of all exploration work conducted by various operators from 1986 to present is summarized in Table 9-1. Cominco Alaska Inc. is attributed with the discovery of the Whistler deposit in 1986. The only exploration activity documented by Cominco for which Kiska has records are 8.4 line-kilometres of 2D Induced Polarization geophysics over the Whistler Deposit and sixteen diamond drillholes (1,677 metres) in the Whistler deposit.

Table 9-1 Summary of Exploration on the Whistler Project

Operator	Field Seasons	Mapping	Geophysics	Rocks	Soils	Silts
Cominco	1986-1989	n/a	• 8.4 line-km of 2D IP over the Whistler deposit	n/a	n/a	n/a
Kennecott	2003-2006	Property-wide mapping	• 39.4 line-km of 2D IP • Property-wide AM (400m line spacing) • Snow Ridge AM (79 line km at 200m line spacing) • Whistler Area AM (1,365 line km at 50m line spacing)	1312	2446	103
Geoinformatics	2007-2008	Prospect-scale mapping	• 8.8 line km of 2D IP (Whistler area)	20	195	nil
Kiska	2009-2011	Prospect-scale mapping	• 40 line-km of 2D IP (Whistler area, Muddy Creek, Island Mountain) • 224 line-km of 3D IP (Whistler area) • Island Mountain EM (635 line km at 100m line spacing)	315	1425	46

AM = Airborne Magnetic survey
EM = Airborne Electro-Magnetic survey
IP = Induced Polarization survey

9.1 Geological Mapping

The bulk of the detailed geological mapping and interpretation on the property was undertaken by Kennecott and summarized in a report by Young (2006). This work laid the foundation for the geological interpretation of porphyry-style mineralization in the Whistler area (including the Whistler deposit and the Raintree - Rainmaker prospects), the Breccia Zone at Island Mountain, and Intrusion-Related Au mineralization in the Muddy Creek area.

9.2 Airborne Geophysics

An airborne helicopter geophysical survey was commissioned from Fugro Airborne Surveys ("Fugro") by Kennecott during 2003. This survey covered the entire property with a high sensitivity cesium magnetometer and a 256-channel spectrometer.

Additional airborne magnetic data were acquired by Kennecott in 2004 over two smaller areas using a helicopter equipped by a Rio Tinto bird operated by Fugro and a Kennecott geophysicist. One area over the Snow Ridge target was investigated at 200 metres line spacing (79 line kilometres). The other grid was flown over the Whistler deposit and surrounding area using fifty-metre line spacing (1,365 line kilometres).

Results from these airborne surveys were used by Kennecott to interpret geological contacts, fault structures and potential mineralization in the Whistler, Island Mountain and Muddy Creek areas. In particular, the airborne magnetic data showed that the Whistler deposit displays a strong 900m by 700m positive magnetic anomaly attributed to the magnetic Whistler Diorite intrusive complex (host to the Whistler Deposit) in addition to a contribution from secondary magnetite alteration and veining associated with Au-Cu mineralization. This observation formed that basis for exploration targeting in the Whistler area, particularly those areas covered by a thin veneer of glacial sediments, such as the Raintree and Rainmaker prospects. These surveys, in addition to 2D Induced Polarization ground geophysical surveys targeted over airborne magnetic anomalies, were instrumental in the "blind" discovery of the Rainmaker and Raintree prospects by Kennecott in 2005 and 2006, respectively.

Kiska commissioned a helicopter-borne AeroTEM survey over the Island Mountain area by Aeroquest Airborne in June 2011. The principal geophysical sensor was an AeroTEM III time domain electromagnetic system, employed in conjunction with a caesium vapour magnetometer. Navigation was provided by a real-time differential GPS navigation system, plus a radar altimeter and a video recorder mounted in the nose of the helicopter.

The survey was flown on east-west flight lines with a spacing of 100 metres. Control lines were flown north-south, perpendicular to the survey lines, with a spacing of 1000 metres. The nominal terrain clearance of the EM bird was 30 metres. The magnetometer sensor was mounted in a smaller bird connected to the tow rope 33 metres above the EM bird and 20 metres below the helicopter. Nominal survey speed was 75km/hr., resulting in a geophysical reading about every 1.5 to 2.5 metres along the flight path. The total survey coverage, including tie lines, was 635km. Mira Geoscience was subsequently engaged to produce a 3D inversion of the data. The survey was designed to target potential zones of disseminated and net-textured pyrrhotite mineralization similar to the pyrrhotite-associated gold-only zone of mineralization on the flanks of the Breccia Zone. The survey did detect a large 1.5km long by 1.0km wide conductivity low anomaly on the southeast side of the Island Mountain area, referred to as the Super Conductor target. This anomaly was subsequently tested by three drillholes that did suggest that the conductivity anomaly may be associated with disseminated pyrrhotite mineralization with elevated gold values, yet further drilling is required to be conclusive and fully test the target.

9.3 Ground Geophysics

Cominco acquired 8.4 line-km of 2D Induced Polarization geophysics from six east-west oriented lines centred over the Whistler deposit discovery outcrops. Anomalous results from these lines were used to target the deposit area with subsequent drilling. From 2004 to 2006, Kennecott completed 39.4 line-kilometres of 2D IP geophysics in the Whistler area. Within this survey, two IP lines were run over the Whistler deposit magnetic anomaly and showed that mineralization is coincident with a strong

chargeability anomaly. Subsequent lines targeted magnetic anomalies at the Round Mountain, Canyon Creek, Canyon Ridge, Canyon Mouth, Long Lake Hills, Raintree and Rainmaker prospects. In 2007-2008, Geoinformatics completed 8.8 line km of 2D IP from six separate reconnaissance lines in the Whistler area targeting airborne magnetic highs. Anomalous results from this survey in the Raintree area led to the Raintree West discovery.

In 2009, Kiska undertook a significant 2D and 3D IP survey over most of the prospective areas in the Whistler, Island Mountain and Muddy Creek areas. Kiska commissioned Aurora Geoscience to complete 224 line-kilometres of a 3D Induced Polarization geophysical survey. This was executed on two grids (Round Mountain; Whistler Area) which were comprised of grid lines ranging from 4 to 9km long with a line-spacing of 400 metres. From November to December, 2009, the raw data was delivered to Mira Geoscience for detail data quality control and error analysis prior to the construction of a 3D inversion model. This survey reaffirmed that the Whistler deposit is coincident with a discrete 3D chargeability anomaly and showed that much of the Whistler area contains broad areas of anomalous chargeability (Figure 9-1). In conjunction with the airborne magnetic data, these zones of anomalous chargeability formed the basis for exploration drilling in the Whistler Area in 2010.

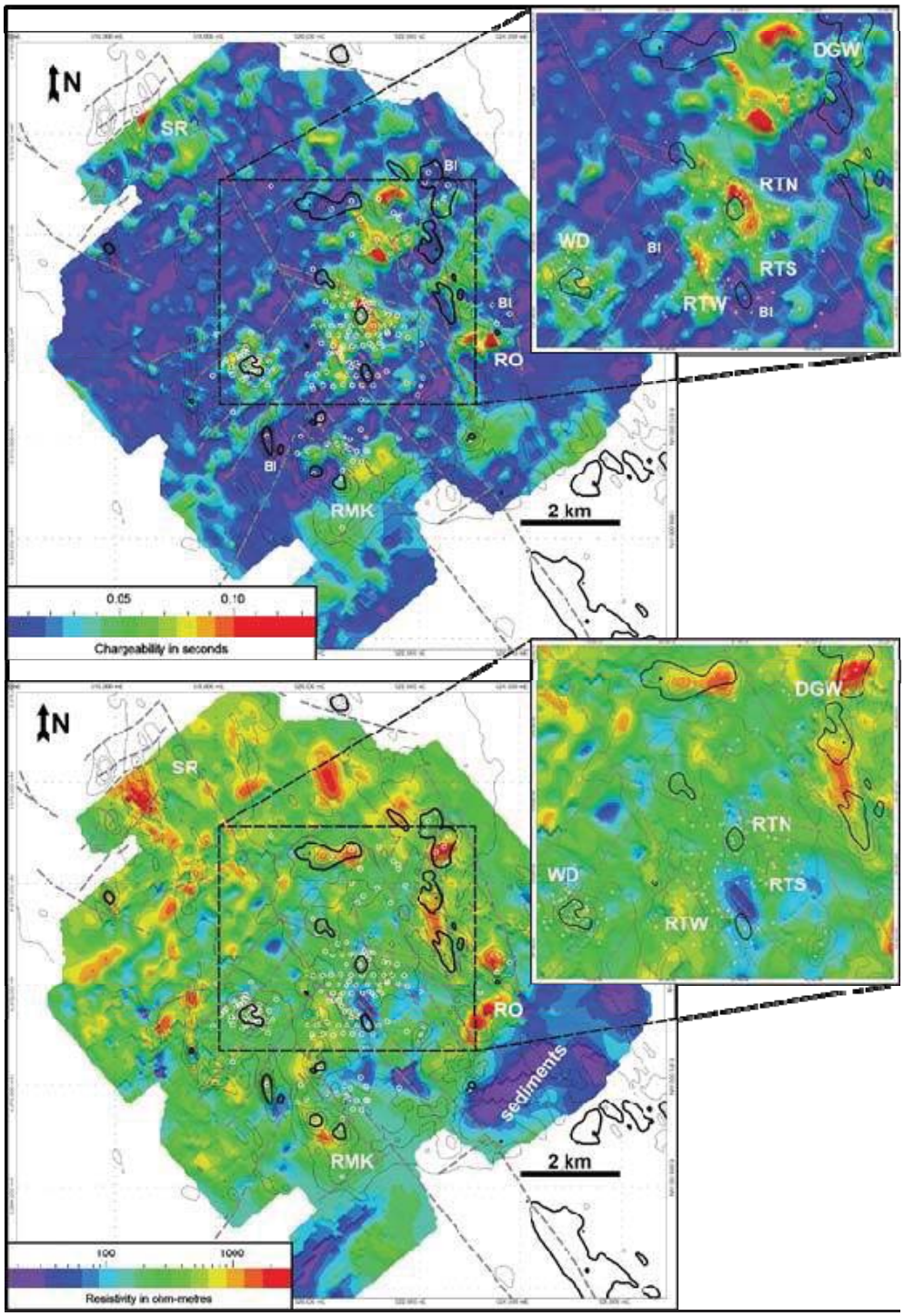


Figure 9-1 **Depth slices (100m) of the chargeability (top) and resistivity (bottom) inversion model of the 3D IP data in the Whistler Area (with contours of the 400m line-spacing AMAG RTP). WD, Whistler Deposit; RTW, Raintree West; RTN, Raintree North; RTS, Raintree South, DGW, Dagwood; RMK, Rainmaker. From Roberts, 2011a.**

In 2009 Kiska commissioned SJ Geophysics to complete 40 line-km of a 2D Induced Polarization geophysical survey. Survey lines were generally semi-straight reconnaissance-type lines over areas of interest at Alger Peak, Island Mountain and Muddy Creek. The geophysical survey was acquired with a pole – dipole 2DIP technique with 100m dipoles.

9.4 Soil and Rock Sampling

From 2004 to 2006 Kennecott collected 1,300 rock samples, close to 2,500 soil samples and 103 stream sediments samples in the Whistler, Island Mountain and Muddy Creek areas. Within this program, a soil grid over the Whistler deposit returned anomalous Au-Cu results coincident with the magnetic high. Other reconnaissance soil lines in the Whistler area with anomalous Au-Cu results helped to define areas of interest at the Round Mountain, Canyon Creek, Canyon Ridge, Canyon Mouth, and Long Lake Hills prospects. In addition, soil reconnaissance lines at Island Mountain led to the Discovery of the Breccia Zone and broad zones of anomalous Au at Muddy Creek. In 2009 and 2010, Kiska collected 1417 soil samples and 293 rocks samples, which largely confirmed areas of interest in the Whistler, Island Mountain, and Muddy Creek areas previously defined by Kennecott.



Figure 9-2 From the Whistler Area looking North to the Snow Ridge Area



Figure 9-3 From the Whistler Area looking South to the Rainmaker Area



Figure 9-4 View of the Island Mountain Area
(Three drill sites are shown.)



Figure 9-5 Another View of the Island Mountain Area
(A drill is seen in centre of the photo.)

10.0 Drilling

A total of 70,198 metres of diamond drilling in 250 holes has been completed on the Whistler Project by Cominco, Kennecott, Geoinformatics, and Kiska from 1986 to the end of 2011 (Table 10-1). Of these drillholes 19,870 metres in 48 holes have been drilled in the Whistler Deposit area, 33,532 metres in 157 holes have been drilled on exploration targets beyond the Whistler deposit in the Whistler area, 15,841 metres in 42 holes have been drilled in the Island Mountain area, and 955 metres in 3 holes have been drilled in the Muddy Creek area.

Table 10-1 Summary of Diamond Drilling on the Whistler Project

Operator	Drill Target Area	No. Drillholes	Metres
Cominco - (1986-1989)	Whistler Deposit	16	1,677
Total Cominco		16	1,677
Kennecott - (2003-2006)	Whistler Deposit	15	7,953
	Whistler Area	18	4,227
	Island Mountain	2	269
Total Kennecott		35	12,449
Geoinformatics - (2007-2008)	Whistler Deposit	12	5,784
	Whistler Area	6	1,841
Total Geoinformatics		18	7,625
Kiska - (2009-2011)	Whistler Deposit	5	4,456
	Whistler Area	133	27,464
	Island Mountain	40	15,572
	Muddy Creek	3	955
Total Kiska		181	48,447
Total Whistler Deposit		48	19,870
Total Whistler Area		157	33,532
Total Island Mountain		42	15,841
Total Muddy Creek		3	955
Total All Operators		**250**	**70,198**

10.1 Drilling by Cominco Alaska Inc.

There are partial records documenting sixteen shallow core boreholes (1,677 metres) drilled on the Whistler gold-copper deposit in 1988 and 1989. The records contain descriptions of the core, with drilling logs with assay results. The position of several holes was re-surveyed by Kennecott using either a hand held GPS or with a Trimble ProXr receiver providing real-time sub-metre accuracy. Three holes could not be located. Apparently the core from the Cominco holes was donated to the State of Alaska in 1990 and is probably stored at a core library in Eagle River, Alaska.

10.2 Drilling by Kennecott

Between 2004 and 2006, Kennecott drilled a total of thirty-five core holes (12,449 metres) on the Whistler Project. Fifteen of those core holes (7,953 metres) were drilled on the Whistler deposit. The Kennecott core is stored in part at the base camp and in part in a secured warehouse in Sterling, Alaska. The drilling was conducted by NANA-Dynatec and subsequently NANAMajor drilling from Salt Lake City, Utah, using up to three drill rigs supported by helicopter. HQ-diameter core was recovered in 2004 and subsequently NQ in 2005 and 2006.

Kennecott personnel used extensive documented procedures during drilling. The collar position of each borehole was laid out with a hand GPS unit. Azimuth and inclination determined with a compass. Each collar was subsequently surveyed using a Trimble ProXr receiver providing real-time sub-metre accuracy. The casing was pulled after drilling. Downhole deviation was monitored using Flex It Multi-shot readings at twenty foot (six metre) intervals. Magnetic susceptibility and gravity data were also recorded. Drilling, logging and sampling were conducted under the direct supervision of a suitably qualified geologist. Core retrieved from drilling was oriented using EzMark or an ACE device. Core recovery, geotechnical point load test, and rock quality determination were collected before the geologist recorded elaborate information about lithology, mineralogy, alteration, vein density, and structure. Magnetic susceptibility was also measured on core at regular intervals. All descriptive data were recorded digitally and subsequently populated an acQuire database.

A total of twenty boreholes (4,746 metres) were drilled by Kennecott to investigate other exploration targets. Targets selected for drilling were typically chosen based on a combination of geology, geochemical and geophysical criteria interpreted to be indicative of magmatic hydrothermal processes. The drilling strategy involved testing selected targets with vertical or angled drillholes to validate the geological model. One or more boreholes were drilled, depending on results, in an attempt to vector towards the potassic core of a magmatic hydrothermal system known to be associated with better copper and gold sulphide mineralization in this area.

10.3 Drilling by Geoinformatics

From 2007 through 2008, Geoinformatics drilled twelve holes for 5,784 metres on the Whistler Deposit and six holes for 1,841 metres on other exploration targets in the Whistler area. Geoinformatics used the same drilling contractor and drilling procedures as Kennecott (note that oriented-core was not obtained by Geoinformatics).

Exploration drilling by Geoinformatics in the Whistler area targeted geophysical anomalies in the Raintree and Rainmaker areas, using the same basic porphyry exploration model as Kennecott.

10.4 Drilling by Kiska

During the 2009-2011 Kiska drilling campaigns, diamond drilling was performed by Quest America Drilling and Falcon Drilling Ltd. following industry-standard diamond drilling procedures. The drilling was supervised by geological staff from Kiska. Drilling was performed by helicopter-portable diamond drill rigs using HQ (6.35cm) and NQ (4.76cm) diameters tools. Drillholes were collared with HQ diameter tools and reduced to NQ diameter tools when the rig reached the depth capacity of the HQ equipment. Collar locations were captured with hand-held GPS devices by Kiska staff. Downhole surveys for all holes were conducted by the drill contractor every 60 metres down-hole using a Relflex EZ Shot down-hole camera.

All drillholes were logged by Kiska geologists within the core logging facility at the Whistler exploration camp. Geologists logged lithology type, alteration type and intensity, vein types, percentage vein volume and vein orientations (to core axis), structures (to core axis), and the percentage of sulphides and oxides. Logging data was entered on paper logging forms (2009) and directly onto laptop computers using LogChief software (2010-2011). Magnetic susceptibility readings were also recorded

for every metre of core using a hand-held device. Detailed geotechnical logging was also performed and includes core recovery and rock quality designation (RQD).

During the 2009-2011 Kiska drilling campaign a total of 181 diamond drillholes were completed for a total of 48,447 metres. Table 10-1 shows the distribution of these drillholes relative to prospect areas on the Whistler Project. Appendix B lists the location, azimuth, dip and TD for all holes on the Whistler Project. There are no drilling, sampling or recovery factors that materially impact the accuracy or reliability of the drill results described below.

10.5 Whistler Deposit

A total of five holes for 4456 metres were drilled on the Whistler deposit by Kiska in 2010. These holes were targeted to in-fill gaps from the previous drill campaigns and to test the edges and depth of the intrusive complex that hosts the deposit. Results from these holes are included in the updated resource estimate.

10.6 Whistler Area Exploration Drilling

A total of 133 exploration holes for 27,464 metres of drilling in the Whistler area were completed by Kiska in 2009-2011. A majority of these holes were drilled in the "Whistler Area", an area that includes much of the broad valley floor to the north, east and south of the Whistler Ridge, that includes the Raintree and Rainmaker prospect areas (Figure 10-1). Targeting for this drilling program was developed by a technical team comprised of Kiska and Kennecott geologists in 2009-2010 and Kiska geologists in 2011 based on blind geophysical targets heavily weighted by the results of the 2009 3D IP survey (chargeability and resistivity anomalies), airborne magnetic anomalies, anomaly size, and proximity to areas of known mineralization or anomalous surface geochemistry. A majority of these holes were drilled in the Whistler Area and intersected andesitic volcanic rocks with moderate to strong sericite-clay-pyrite alteration and occasional sphalerite- and galena-bearing quartz-carbonate veins with banded and colliform epithermal-like textures. The alteration and veining from these wide-spaced drillholes (on average >500 metres apart) indicate that broad areas in the Whistler Area define the upper, cooler margins of a large porphyry-related hydrothermal system or a cluster of smaller, coalescing porphyry-related hydrothermal systems. Within this broad area, drilling returned Whistler-like, porphyry-style Au-Cu mineralization with significant intercepts at the Raintree West, Raintree North, and the Rainmaker prospects, and anomalous alteration and geochemistry at the Dagwood prospect.

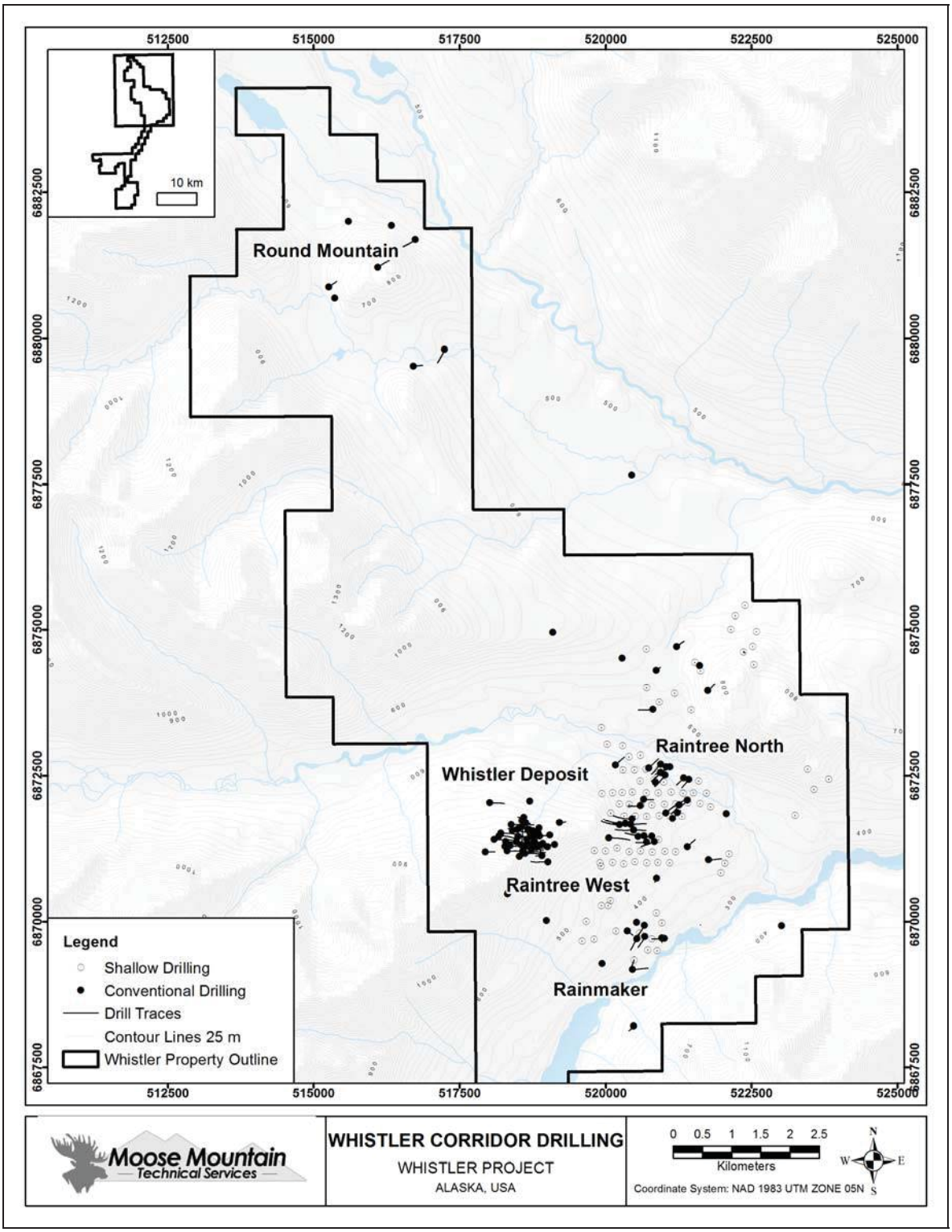


Figure 10-1 Whistler Area Drilling (2015)

10.7 Raintree West

The Raintree West prospect is located 1800 metres to the east of the Whistler deposit, just off the nose of Whistler Ridge. Outside of the Whistler deposit, Raintree West is currently the most advanced prospect in the Whistler Area on the basis of drill metres, with a total of 8538 metres since the original discovery hole drilled by Geoinformatics in 2008. The discovery drillhole, RN-08-06, targeted an airborne magnetic high anomaly that is coincident with an IP chargeability high anomaly detected on a 2D IP reconnaissance line that crossed the Whistler Area. This hole discovered a significant zone of near surface (below 5m to 15m of till cover) gold-copper porphyry mineralization (160 metres grading 0.59 gpt gold, 6.02 gpt silver, 0.10% copper). Kiska expanded on this discovery in 2009 with a scissor hole drilled on the same section as RN-08-06 (WH09-02). This scissor hole was successful at duplicating the gold-copper mineralization zone in RN-08-06, and discovered a second, deeper zone of porphyry mineralization on the west side of the Alger Peak fault zone. In 2010, Kiska followed up on the shallow zone with an additional four drillholes, and in 2011 further tested the shallow zone and the deep zone with a total of eight holes for a total of 5997 metres. The majority of drillholes at Raintree West were drilled on east-west sections with section spacing of 100m. Table 10-2 shows highlight results (drilled widths). True widths of the mineralized intervals are interpreted to be between 50 to 100% of the reported lengths. The irregular nature of the mineralization, the shape of post-mineral intrusions, and the orientation of fault structures precludes greater specificity regarding true widths at this time.

Table 10-2 Highlight results from the Raintree West prospect

Hole	From (m)	To (m)	Interval (m)	Gold (gpt)	Silver (gpt)	Copper (%)	Lead (%)	Zinc (%)	Gold Eqv. (gpt)*	Mineralization Type [1,2,3]
Section 6,871,350mN										
WH10-011	572.16	606.0	33.84	0.32	4.69	0.07	0.17	0.37	0.53	Late Ag-Pb-Zn
WH10-024	5.0	304.0[x]	299.0	0.47	5.4	0.04	0.23	0.51	0.63	Porphyry + o/p
including	168.0	251.0	83.0	1.20	11.8	0.06	0.53	1.08	1.50	Late Ag-Pb-Zn
Section 6,871,450mN										
WH09-002	7.6	479.2*	471.6	0.38	4.7	0.09	0.15	0.35	0.63	Composite
including	59.0	187.7	128.7	0.56	6.8	0.16	0.14	0.32	0.99	Porphyry + o/p
and	382.0	479.2*	97.2	0.61	6.9	0.16	0.24	0.59	1.04	Porphyry + o/p
including	429.0	469.0	40.0	0.98	10.2	0.21	0.35	0.85	1.56	Porphyry + o/p
Section 6,871,550mN										
WH10-027	200.5	289.0	88.5	0.15	4.8	0.02	0.26	0.69	0.26	Late Ag-Pb-Zn
WH10-029	376.0	836.7x	460.7	0.50	7.1	0.06	0.17	0.52	0.74	Composite
including	404.0	566.0	162.0	0.52	13.0	0.04	0.38	0.94	0.81	Late Ag-Pb-Zn
and	566.0	774.0	208.0	0.54	4.3	0.09	0.06	0.29	0.80	Porphyry + o/p
Section 6,871,650mN										

Hole	From (m)	To (m)	Interval (m)	Gold (gpt)	Silver (gpt)	Copper (%)	Lead (%)	Zinc (%)	Gold Eqv. (gpt)*	Mineralization Type [1,2,3]
WH10-028	61.3	233.5	172.2	0.09	2.3	0.01	0.08	0.35	0.15	Late Ag-Pb-Zn
WH10-030	337.7	791.0	453.2	0.72	3.2	0.12	0.04	0.31	1.01	Composite
including	337.7	462.4	124.7	0.16	1.9	0.01	0.04	0.15	0.21	Late Ag-Pb-Zn
and	462.4	791.0	328.6	0.93	3.7	0.16	0.04	0.36	1.31	Porphyry + o/p
including	619.0	791.0	172.0	1.13	3.9	0.18	0.03	0.45	1.55	Porphyry + o/p
WH11-033	480.1	827.8	347.8	0.53	2.78	0.08	0.04	0.30	0.73	Porphyry + o/p
and	480.1	698.0	218.0	0.55	3.87	0.11	0.06	0.31	0.83	Porphyry + o/p
WH11-036	280.3	534.0	253.8	0.23	3.06	0.01	0.07	0.41	0.30	Late Ag-Pb-Zn
Including	393.0	473.0	80.0	0.43	2.24	0.02	0.05	0.18	0.51	Late Ag-Pb-Zn
WH11-053	169.0	275.0	106.0	0.23	2.46	0.01	0.53	0.15	0.29	Late Ag-Pb-Zn
and	380.0	472.0	92.0	0.26	3.00	0.03	0.10	0.03	0.37	Late Ag-Pb-Zn
Section 6,871,750mN										
WH11-039	351.0	503.0	152.0	0.26	4.54	0.02	0.06	0.23	0.36	Late Ag-Pb-Zn
	531.0	570.0	39.0	0.25	1.35	0.03	0.01	0.02	0.34	Late Ag-Pb-Zn
	622.9	775.0	152.1	0.37	2.10	0.08	0.03	0.33	0.56	Porphyry + o/p
including	689.0	763.0	74.0	0.47	2.50	0.14	0.01	0.16	0.79	Porphyry + o/p

**Gold equivalent calculations do not take into account metallurgical recoveries and are based on in ground metal using metal prices of $990 per ounce gold, $15.40 per ounce silver and $2.91 per pound copper.*

[X] denotes end of hole and that the intersection quoted remains open.

1 "Late Ag-Pb-Zn" is comprised of zones of quartz-carbonate veins with sphalerite-galena-pyrite ± chalcopyrite; Ag-Pb-Zn veins occur peripheral to Porphyry mineralization (see 2) and cross-cut Porphyry mineralization

2 "Porphyry + o/p" is comprised of zones dominated by "core-style" high-temperature porphyry alteration and gold-copper mineralization with an irregular overprint of "Late Ag-Pb-Zn"

3 "Composite" is comprised of broad intervals that include both styles of mineralization in discrete zones: "Late Ag-Pb-Zn " (with no earlier porphyry mineralization) and "Porphyry + o/p"

Current drilling at Raintree West has defined two significant zones of gold-copper porphyry mineralization: 1) a near surface zone on the east side of the Alger Peak fault; and 2) a deep zone on the west side of the fault.

The near surface porphyry mineralization is coincident with a northwest-elongate airborne magnetic high anomaly that measures 250 metres long and 150 metres wide, which pinches to the northwest and southeast. Drilling has intersected this mineralization on two 100 metre-spaced east-west sections (6,871,350mN and 6,871,450mN). The mineralization is closed to the north, and potentially open to the south, however grade diminishes and the airborne magnetic high anomaly pinches out just south of the most southerly hole. Porphyry mineralization here occurs from surface down to a maximum depth of approximately 170 metres, where it is either truncated by post-mineral diorite porphyry intrusions or faulting.

The deep zone of mineralization on the west side of the fault has a maximum apparent width and vertical extent of 300 by 300 metres at its widest (6,871,650mN), is open to depth, and occurs at its shallowest at 470 metres below surface. The mineralization is essentially blind to the airborne magnetic data and the 3D IP due to the limited depth penetration of these techniques. This deep zone of mineralization can be traced along a northwest-trending strike extent for at least 325 metres where it appears fault bound to the northwest and is open to depth to the southeast. Further drilling is required to determine the full dimensions of mineralization.

Porphyry mineralization at Raintree West is essentially similar to that at the Whistler Deposit with respect to veining and alteration, although Raintree West is mantled by intensely altered volcanic rocks with epithermal-texture quartz-carbonate veins. These veins (Dbm), interpreted to have formed in a shallow environment post-dating the main phase of porphyry gold-copper mineralization, may have developed through hydrothermal/thermal downward collapse onto to earlier formed high temperature porphyry system, contributing base and precious metals to the mantle of volcanic rocks and porphyry mineralization.

10.8 Island Mountain Exploration Drilling

The majority of the drilling completed by Kiska at the Island Mountain prospect between 2009 and 2011 targeted the Breccia Zone (35 out of 42 holes) and the remainder targeted zones of either anomalous surface rock geochemistry and alteration (Cirque Zone) or geophysical anomalies (Super Conductor). Significant results were only returned from the Breccia Zone and are summarized below. The alteration patterns and geochemical pathfinder elements from the other areas are currently being reviewed and may be used to target addition drilling in the future.

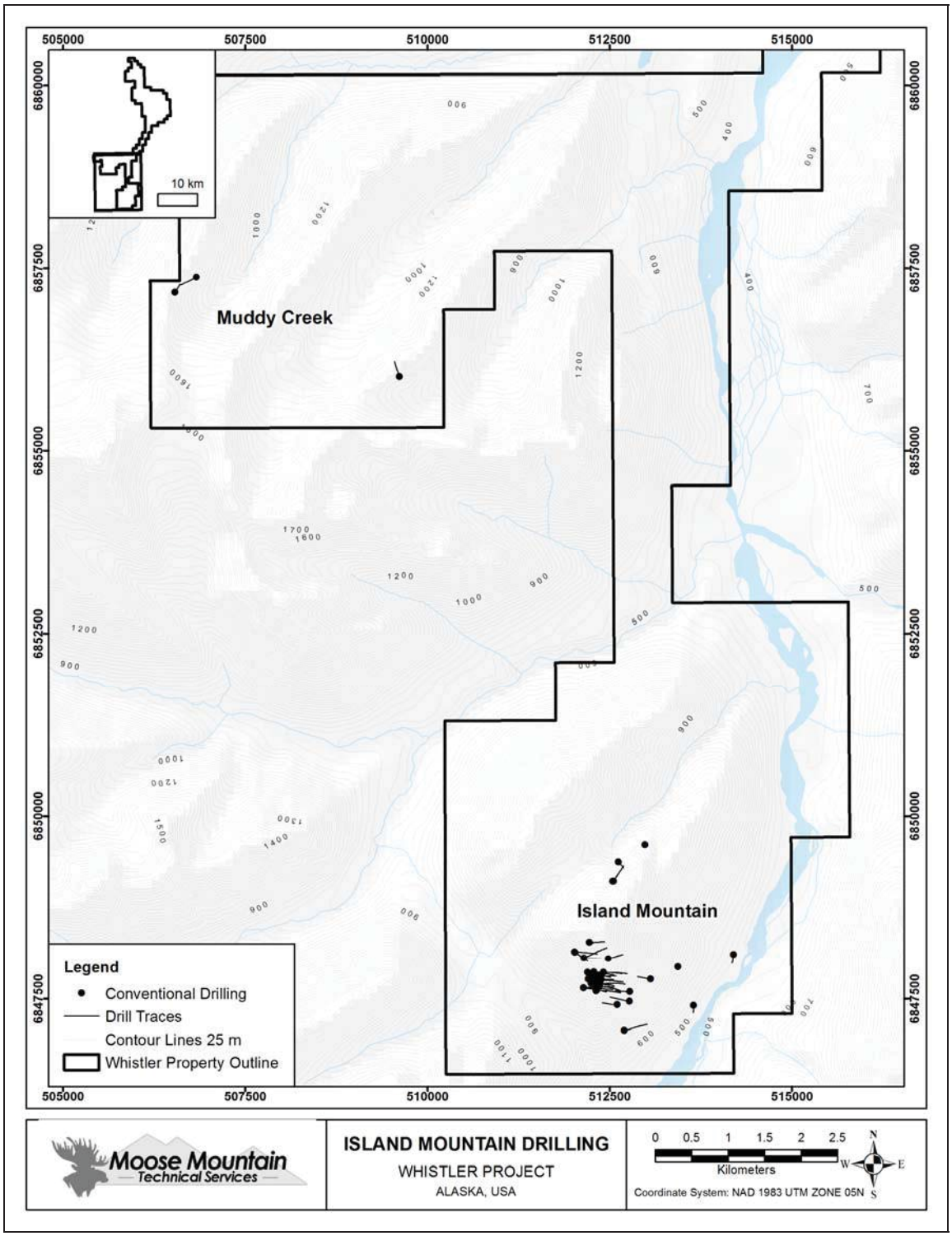


Figure 10-2 Island Mountain and Muddy Creek Drilling (2015)

10.9 Breccia Zone Drilling

At the Breccia Zone, the bulk of the drilling was completed on seven east-west cross-sections spaced 50 metres apart in a 300 square meter area from 6847600N to 6847900N (Figure 10-3). Interpretation of the lithologies, alteration and mineralization of the breccia-related mineralization indicates that the magmatic-hydrothermal breccia complex defines an irregular pipe-shaped body approximately 300m by 300m in plan and extending from the surface down 500 metres, where mineralization is open to depth. This breccia complex is sub-vertical and appears to trend in a northwest-southeast orientation, similar to the strike of the faults in the area.

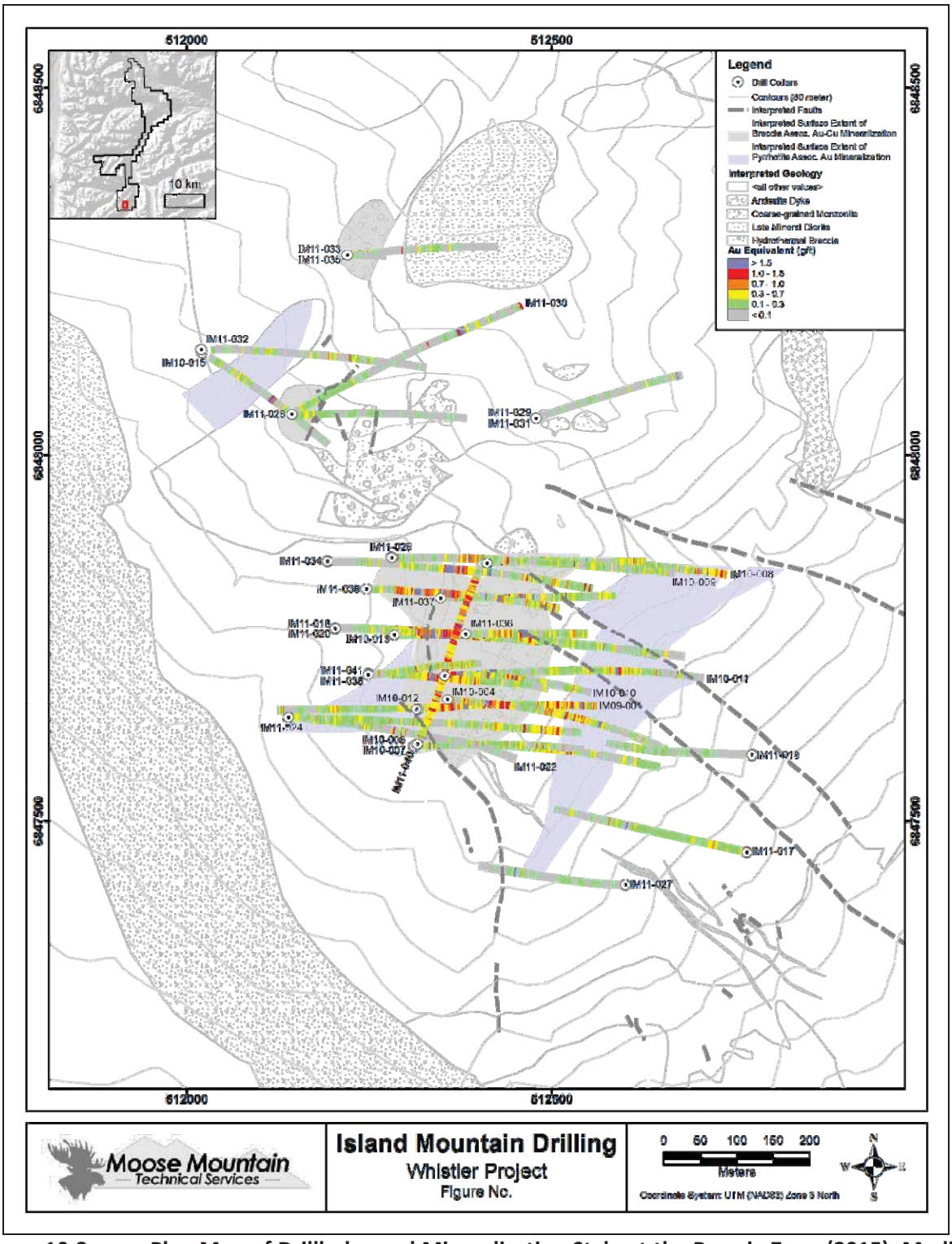


Figure 10-3 Plan Map of Drillholes and Mineralization Style at the Breccia Zone (2015). Modified from Roberts, 2011b.

At the south end of the Breccia Zone, section 6847600 is interpreted to represent the southern edge of the complex. At the north, section 6847850 intersects the main body of the breccia complex with the deepest drillhole IM11-034 intersecting the full width of the breccia leaving the complex completely open at depth and further to the north. Most drillholes also intersected the pyrrhotite-related gold-only mineralization that lies at depth and east of the breccia complex. This mineralization style is poorly understood in terms of extents and orientation. In places it is wide (+100m) and highly mineralized and it other places it is almost non-existent. Generally the pyrrhotite-related gold-only mineralization persists as multiple slab-like bodies, paralleling the eastern margin of the breccia complex and dipping steeply to the west. Significant results are presented in

Table 10-3. True widths of the mineralized intervals reported below are estimated to be approximately 55%-75% of the reported intervals due to the relatively sub-vertical plunge of the breccia body and associated mineralization.

Table 10-3 Significant drill results from the Breccia Zone at Island Mountain

Hole	From (m)	To (m)	Interval (m)	Gold (gpt)	Silver (gpt)	Copper (%)	Gold Eqv.* (gpt)
Section 6847650N							
IM09-001	4.0	386.9	382.9	0.68	1.53	0.10	0.90
including	44.0	194.0	150	0.72	2.46	0.16	1.09
including	280.0	386.9	106.9	1.22	0.87	0.05	1.33
IM09-004	31.2	161.0	129.8	0.70	2.53	0.16	1.07
	231.5	383.1	151.6	0.78	0.82	0.03	0.86
IM10-012	8.2	52.0	43.8	0.17	1.88	0.10	0.41
and	207.0	226.0	19.0	0.35	2.33	0.10	0.58
and	340.9	360.0	19.0	0.67	0.28	0.01	0.69
IM11-022	205.0	238.1	33.1	0.27	0.60	0.03	0.34
and	286.0	328.0	42.0	0.34	0.44	0.01	0.37
and	506.0	533.0	27.0	0.19	1.22	0.06	0.33
IM11-024	15.0	461.0	446.0	0.26	0.82	0.03	0.33
including	357.0	458.0	101.0	0.55	0.56	0.03	0.61
Section 6847700N							
IM11-038	45.0	227.0	182.0	0.50	2.94	0.14	0.84
including	103.0	227.0	124.0	0.55	3.34	0.17	0.95
and	357.0	367.9	10.9	0.30	0.25	0.01	0.32
IM11-041	48.0	297.0	249.0	0.18	1.59	0.06	0.33
Including	131.0	170.0	39.0	0.15	2.62	0.10	0.40
and	232.5	287.5	55.0	0.30	1.47	0.05	0.42
IM10-010	8.6	108.1	99.4	0.848	2.8	0.20	1.27
	255.0	293.9	38.9	0.280	0.9	0.05	0.38
	311.0	380.0	69.0	0.676	0.5	0.03	0.73
IM10-011	3.0	240.4	237.4	0.533	2.2	0.14	0.83
Including	3.0	57.0	54.0	1.170	3.4	0.23	1.64
Including	185.0	240.4	55.4	0.593	2.6	0.19	0.99
and	291.5	306.6	15.0	0.236	1.0	0.09	0.42
and	380.0	405.0	25.0	0.359	0.9	0.06	0.47
Section 6847750N							
IM11-036	45.0	236.8	191.8	0.47	1.16	0.04	0.57
including	45.0	119.0	74.0	0.98	0.51	0.03	1.05

Hole	From (m)	To (m)	Interval (m)	Gold (gpt)	Silver (gpt)	Copper (%)	Gold Eqv.* (gpt)
and	201.0	236.8	35.8	0.23	2.02	0.07	0.41
IM11-013	42.0	404.0	362.0	0.557	2.0	0.11	0.80
Including	42.0	294.0	252.0	0.707	2.6	0.15	1.02
IM11-018	104.0	479.0	375.0	0.42	1.50	0.07	0.57
Including	110.0	272.0	162.0	0.64	2.54	0.12	0.92
Including	137.0	272.0	135.0	0.73	2.49	0.11	1.00
IM11-020	136.0	480.0	344.0	0.56	1.41	0.08	0.75
Including	180.0	439.0	259.0	0.71	1.7	0.10	0.93
Including	222.0	383.0	161.0	1.00	2.29	0.12	1.27
Section 6847800N							
IM11-037	72.3	271.0	198.7	0.53	0.40	0.03	0.59
including	105.0	184.0	79.0	1.00	0.28	0.02	1.04
and	223.0	271.0	48.0	0.24	0.82	0.05	0.36
and	312.0	351.1	39.1	0.28	0.25	0.02	0.33
IM11-039	56.0	387.7	331.7	0.57	1.62	0.09	0.78
including	56.0	213.0	157.0	0.59	2.80	0.16	0.96
and	256.6	295.0	38.4	1.42	0.70	0.04	1.51
and	320.0	387.7	67.7	0.46	0.70	0.03	0.54
Section 6847850N							
IM11-034	138.1	502.0	364.5	0.53	15.3	0.03	0.84
including	213.0	313.0	100.0	1.37	54.19	0.04	2.29
including	370.0	442.0	77.0	0.37	0.40	0.03	0.43
IM10-008	73.6	96.9	23.3	0.23	1.03	0.04	0.33
	235.0	294.0	59.0	0.29	0.40	0.02	0.77
	351.0	438.6	87.6	0.73	0.45	0.02	0.77
including	383.0	437.0	54.0	1.04	0.29	0.01	1.07
IM10-009	96.0	189.6	93.6	0.31	0.66	0.02	0.35
	269.2	300.4	31.2	0.31	1.08	0.05	0.47
	346.0	434.6	88.6	0.33	1.48	0.04	0.43
IM11-026	9.0	266.0	257.0	0.45	0.57	0.01	0.48
including	139.0	266.0	127.0	0.74	0.50	0.01	0.76
	335.0	377.5	42.5	0.24	0.50	0.04	0.32
	491.0	545.0	54.0	0.25	0.34	0.02	0.29

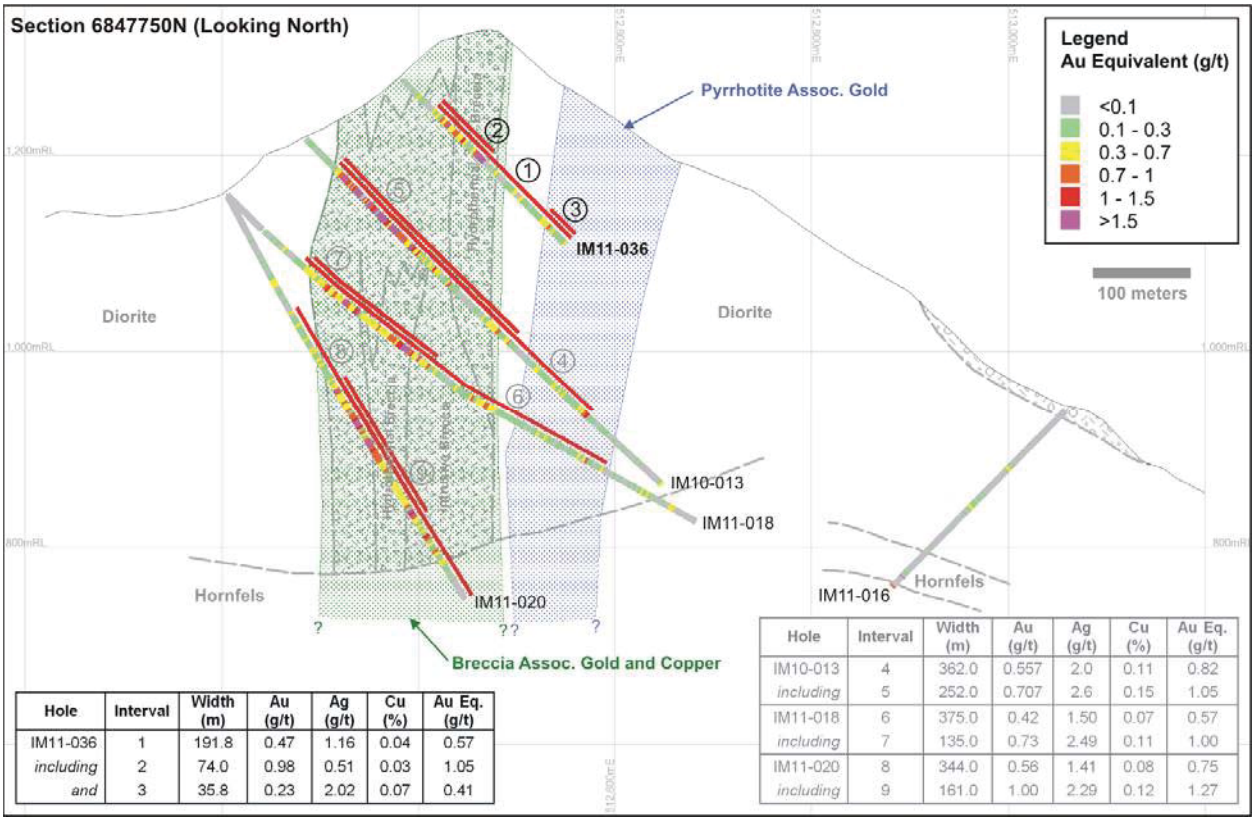
**Gold equivalent calculations do not take into account metallurgical recoveries and are based on in ground metal using metal prices of $990 per ounce gold, $15.40 per ounce silver and $2.91 per pound copper.*

At the southern end of the Breccia Zone, the breccia is comprised of intermingled intrusive and hydrothermal matrix breccias dominated by sodic-calcic alteration. This breccia complex records early pervasive biotite alteration (Early Biotite), local k-feldspar alteration (Potassic) followed by strong actinolite-albite alteration (Sodic-Calcic) that pervades and cements the intrusive and hydrothermal breccias, respectively. The bulk of pyrrhotite ± chalcopyrite mineralization is associated with the sodic-calcic event, although local high Au-Cu grades are hosted by k-feldspar altered Monzonite-cemented intrusive breccias on the west side of the breccia complex.

Mineralization associated with this breccia complex can be subdivided into two main domains: 1) Breccia domain: gold-copper mineralization hosted by dominantly sodic-calcic altered and locally k-feldspar altered intrusive and hydrothermal breccias within the core of the breccia complex, and 2) Pyrrhotite-Gold domain: gold-only mineralization associated with disseminated and vein pyrrhotite

hosted by the Diorite Porphyry peripheral to the breccia domain and best developed on the east margin. The Breccia domain is a sub-vertical, sub-circular and has an approximate diameter of 300 metres and a vertical extent of 500 metres. Mineralization hosted by this domain generally has good continuity from section to section. The breccia domain remains open to the north and northwest. The k-feldspar altered intrusive breccia (monzonite-cemented) comprises a sub-domain of Domain (1) and has some of the highest Au-Cu grades in this domain. This sub-domain most closely resembles the "core" of typical porphyry systems (Potassic alteration with disseminated chalcopyrite) and is coincident with the centre of the airborne magnetic high anomaly in the Breccia Zone. This anomaly may define a deeper "causative" intrusion, a potential source of fluids and metals for the breccia complex.

Pyrrhotite veins in Domain (2) have biotite-altered selvages, actinolite-albite altered selvages and sericite-quartz altered selvages, and may thus span a range of alteration events. The Gold-Pyrrhotite domain is largely confined to a tabular, steeply dipping, north-northeast trending zone measuring 250-300m north-south and 100m east-west that remains open to the north and east on sections 7,800N and 7,850N. This domain lacks well-defined continuity (i.e. the ability to trace individual veins or vein zones) from section to section.



Hole	Interval	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Au Eq. (g/t)
IM11-036	1	191.8	0.47	1.16	0.04	0.57
including	2	74.0	0.98	0.51	0.03	1.05
and	3	35.8	0.23	2.02	0.07	0.41

Hole	Interval	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Au Eq. (g/t)
IM10-013	4	362.0	0.557	2.0	0.11	0.82
including	5	252.0	0.707	2.6	0.15	1.05
IM11-018	6	375.0	0.42	1.50	0.07	0.57
including	7	135.0	0.73	2.49	0.11	1.00
IM11-020	8	344.0	0.56	1.41	0.08	0.75
including	9	161.0	1.00	2.29	0.12	1.27

Figure 10-4 Cross-section 6847750N at the Island Mountain Breccia Zone. From Roberts, 2011b.

The current working hypothesis is that the breccia core was the focal point of fluid flow and gold-copper mineralization, while the Gold-Pyrrhotite domain was interconnected to the breccia domain and tapped

copper-depleted gold-bearing fluids, such that both zones are part of the same system. Offset of the basement hornfels by 100 metres across section 7750mN suggests that this area may define a significant structure through which the intrusive and hydrothermal breccias were focussed.

Surface mapping and drilling to the north of this breccia complex has defined other distinct breccia bodies such as the Falcons Nest Breccia, tested by holes IM11-033 and 035, and unique gold rich and pyrite dominant mineralization like that intersected in hole IM11-030. Mineralization in the Sandwich Zone tested by holes IM10-015 and IM11-032 provides convincing evidence for mineralization and alteration controlled by steep-dipping diorite-hornfels contacts. The Falcons Nest Breccia and the Au zone intersected toward the bottom of hole IM11-030 may also indicate a control on mineralization marginal to the steep contact of the late mineral diorite and enclosing diorite and hornfels.

Further exploration drilling should continue to test the breccia complex and the Pyrrhotite-Gold zone north of 7850N, aiming to expand the Breccia domain to the northwest and north and the Pyrrhotite-Gold Zone to the north and northeast. This drilling should aim to link the breccia bodies drilled to the north with the main breccia complex.

10.10 Muddy Creek Drilling

Three holes for a total of 955 metres were drilled at the Muddy Creek prospect in 2011 (Figure 10-5). The first two holes were designed to test targets highlighted by strong gold anomalies in both soils and rock samples within biotite monzonite. These holes were successful in intersecting gold mineralization. The final hole drilled to test anomalous rock geochemistry at the Bonanza Zone where twelve selective rock samples of outcrop and locally derived float samples averaged 9.0 gpt gold over a 340 metre distance along slope, but failed to reach target depth due to drilling difficulties.

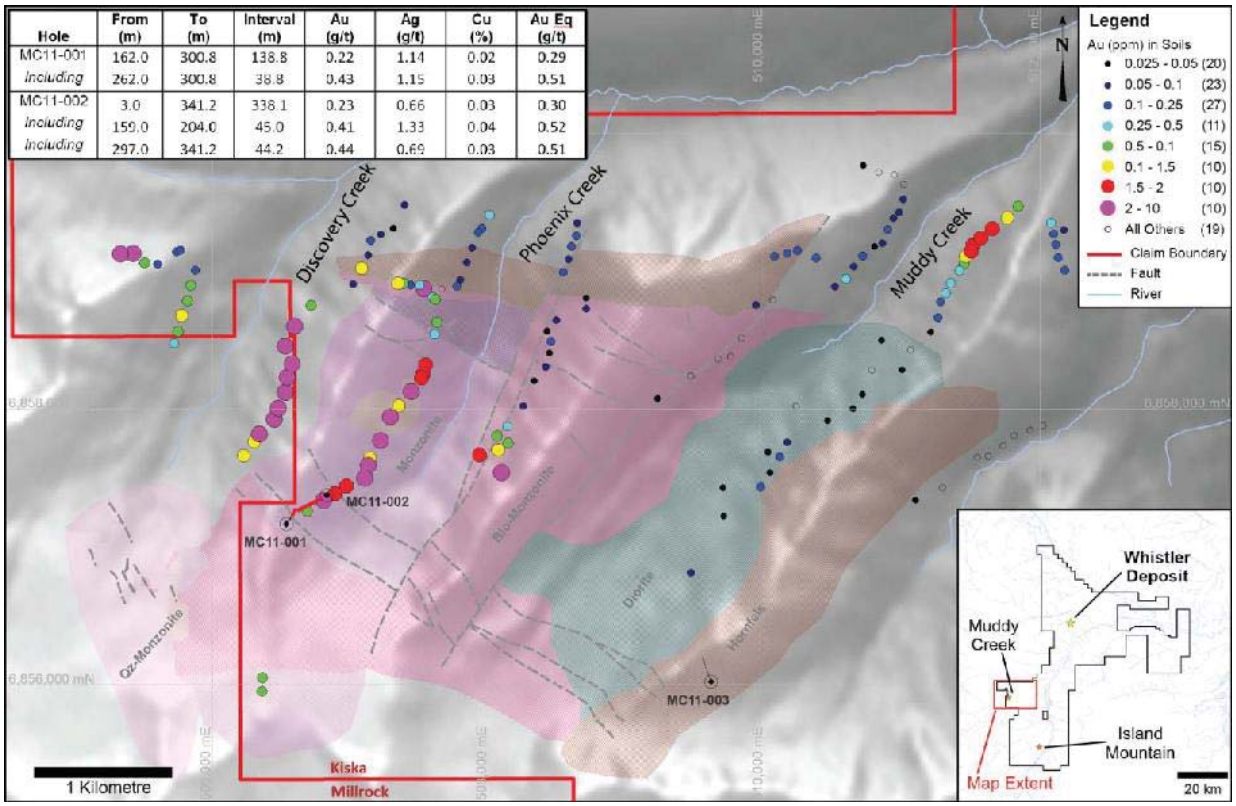


Figure 10-5 Plan Map of 2011 Muddy Creek Drilling with Geology and Au Soil Geochemistry. From Roberts, 2011c.

Holes MC11-001 and -002 were situated at the southwestern edge of a gold-in-soil geochemical anomaly that returned 1.3km line of soils running >1.4ppm Au at Arseno Knob. The holes were designed to drill across a zone of northwest-striking faults thought to control mineralization targeting the down dip portion of a vein zone up to 1.2m thick quartz-arsenopyrite-chaclopyrite veins at surface and steep northwest striking sheeted vein arrays. MC11-001 and -002 were collared 360 metres apart and drilled toward each other at -65 and -50 degree dip, respectively.

The dominate lithology in both MC11-001 and MC11-002 is a fine-medium grained, equigranular biotite monzonite. The monzonite is generally fine-medium grained and composed of subhedral plagioclase and potassium feldspar, euhedral biotite and anhedral interstitial quartz. This unit is intersected at or near surface and is host to the mineralized sheet vein sets seen at Muddy Creek.

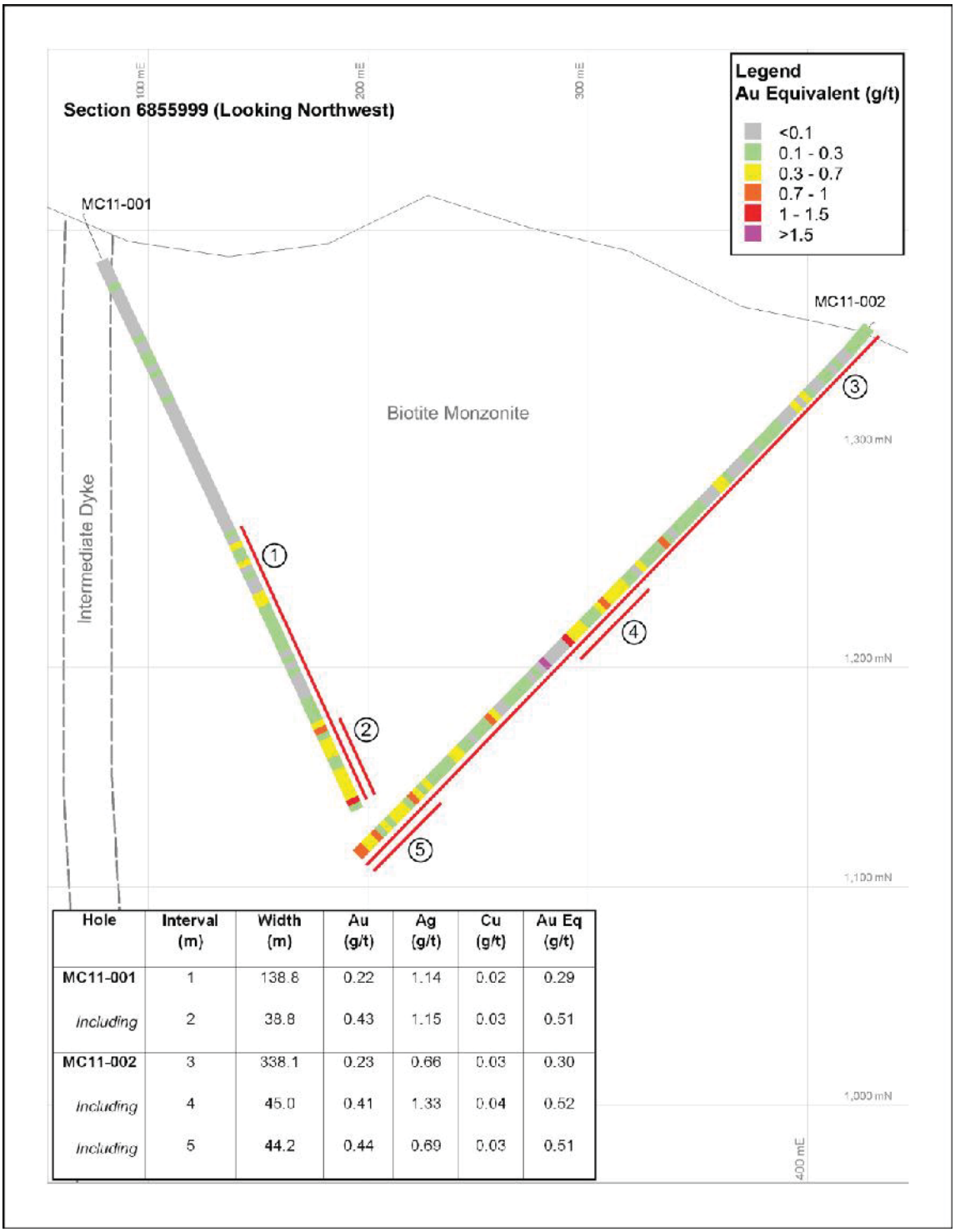
Host rocks are generally fresh aside from weak patchy chlorite and ankerite, rare potassic alteration as k-feldspar and albite occurring as vein halos. Thin, mm-wide mineralized veins occur as sheeted arrays with spacing at the metre scale at an average of 35 (MC11-001) and 50 degrees (MC11-002) to core axis and up to 5mm wide, suggesting an almost vertical set of veins. Veins are composed of quartz ± carbonate and chlorite sometimes with vugs of euhedral quartz crystals later infilled by carbonate. Arsenopyrite, chalcopyrite and occasional pyrrhotite occur as patchy vein fill. Arsenopyrite

mineralization is stronger in wider veins, while chalcopyrite is dominant in hairline, chlorite-rich veins. Later planar carbonate veins cross-cut these veins and consist of dolomite, some calcite, and occasional ankerite, sometimes with strongly chlorite ± sericite altered, texturally destroyed mm-wide haloes.

The northeast directed hole, MC11-001 returned 38.8 metres averaging 0.51 gpt Au Eqv. within a broader interval of 138.8 metres averaging 0.29 gpt Au Eqv. True widths are approximately 40% of the reported intervals given the near-vertical dip of the veins. The southwest directed hole, MC11-002, returned intervals of 45.0 metres averaging 0.52 gpt Au Eqv. and 44.2 meters average 0.51 gpt Au Eqv. within a broad 338.1 metre interval averaging 0.30 gpt Au Eqv. (true widths are approximately 75% of reported intervals). Mineralization remains open laterally and at depth since both holes were terminated in mineralization.

Table 10-4 Summary of MC11-001 and 002 Drillhole Results

Hole	From (m)	To (m)	Interval (m)	Au (gpt)	Ag (gpt)	Cu (%)	Au Eqv. (gpt)
MC11-001	162.0	300.8	138.8	0.22	1.14	0.02	0.29
Including	262.0	300.8	38.8	0.43	1.15	0.03	0.51
MC11-002	3.0	341.2	338.1	0.23	0.66	0.03	0.30
Including	159.0	204.0	45.0	0.41	1.33	0.04	0.52
Including	297.0	341.2	44.2	0.44	0.69	0.03	0.51



Hole	Interval (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (g/t)	Au Eq (g/t)
MC11-001	1	138.8	0.22	1.14	0.02	0.29
including	2	38.8	0.43	1.15	0.03	0.51
MC11-002	3	338.1	0.23	0.66	0.03	0.30
including	4	45.0	0.41	1.33	0.04	0.52
including	5	44.2	0.44	0.69	0.03	0.51

Figure 10-6 Muddy Creek Cross-section 6,857,118mN, MC11-001 and MC11-002. From Roberts, 2011c.

MC11-001 and -002 returned encouraging results as a first attempt at testing the Muddy Creek prospect. 2011 drilling tested only a small portion of the western edge of this five kilometre wide diorite-monzonite intrusive complex that is host to a continuous zone of sheeted Au-bearing veins. Results from MC11-001 and MC11-002, although low grade, suggest that mineralized veins sampled at surface have significant vertical continuity, and that there remains potential for higher grades at depth and laterally. There remain numerous surface geochemical and geophysical targets at Muddy Creek that have excellent potential to host significant Au mineralization and none have yet to be drill tested.

11.0 Sample Preparation, Analyses and Security

The following section is adapted from SRK 2008, "Mineral Resource Estimation Whistler Copper-Gold Project, Alaska Range, Alaska".

The core for the Cominco drilling was not available for data verification. However, it represents 8% of the total drilling primarily within 100m of surface and comparisons of assayed grades with subsequent drilling did not indicate any material bias.

The sample preparation and analytical procedures used by Cominco Alaska Inc. are not known. Core samples were assayed for gold, silver and copper and occasionally for a suite of eight other metals (arsenic, cobalt, iron, manganese, molybdenum, nickel, strontium and zinc) at an undetermined laboratory. It is not known if quality control samples were inserted into the sampling stream.

Kennecott sampling was conducted using documented procedures describing all aspects of the field sampling and sample description process, handling of samples, and preparation for dispatch to the assay laboratory.

Kennecott used a documented chain of custody procedure to monitor and track all sample shipments departing the base camp until the final delivery of the pulp to the assaying laboratory. The procedures include the use of security seals on containers used to ship samples, detailed work and shipping orders. Each transfer point is recorded on the chain of custody form until the final delivery of the pulp to the assay laboratory.

All soil, rock chips, core, and stream sediments samples were organized into batches of samples of a same type and prepared for submission to Alaska Assay Laboratories Inc. in Fairbanks, Alaska for preparation using standard preparation procedures (preparation and assay procedures for core samples is described below). This laboratory is part of the Alfred H. Knight group an established international independent weighing, sampling and analysis service company.

Kennecott used two primary laboratories for assaying samples prepared by Alaska Assay Laboratories Inc. The samples collected during 2004 were assayed by Alaska Assay Laboratories Inc. in Fairbanks, Alaska. All pulverized samples collected in 2005 and 2006 were submitted to ALS-Chemex Laboratory in Vancouver, British Columbia for assaying. The ALS Chemex Vancouver laboratory is accredited to ISO 17025 by the Standards Council of Canada for a number of specific test procedures, including fire assay for gold with atomic absorption and gravimetric finish, multi-element inductively coupled plasma optical emission spectroscopy and atomic absorption assays for silver, copper, lead and zinc. ALS-Chemex laboratories also participate in a number of international proficiency tests, such as those managed by CANMET and Geostats.

Kennecott used two secondary laboratories for check assaying. ALS-Chemex re-assayed 191 pulp samples from the 2004 sampling programs. Acme Analytical Laboratories Ltd. of Vancouver, British Columbia was used as a secondary laboratory in 2005 and 2006.

Core samples were prepared for assaying using industry standard procedures. Five hundred grams of coarsely crushed core samples were pulverized to ninety percent passing a -200 mesh screen. Two-hundred and fifty grams of rock samples were pulverized to eighty-five percent passing a -150 mesh screen. Pulverized core and rock samples collected in 2004 were assayed by Alaska Assay Laboratories in Fairbanks for gold using a fire assay procedure and atomic absorption finish (method code FA30) on thirty grams charges and for a suite of nine metals using an aqua regia digestion and inductively coupled plasma scan (method code ICP-2A). Core and rock samples collected after 2004 were assayed by ALS-Chemex for gold by fire assay and atomic absorption finish (Au-AA23) on thirty gram sub-samples and for a suite of thirty-four elements (including copper and silver) by aqua regia digestion and ICP-AES (method code ME-ICP41) on 0.5 gram sub-samples. Elements exceeding concentration limits of ICP-AES were re-assayed by single element aqua regia digestion and atomic absorption spectrometry (method code element-AA46).

For the drilling samples, Kennecott used comprehensive quality control samples with all samples submitted for assaying. Each batch of twenty core samples submitted for assaying contained one sample blank, one of three project specific standards, a field duplicate and a coarse crushed duplicate. They were inserted blind to the assay laboratory except for the coarsely crushed sample duplicates that were inserted by the preparation laboratory.

All samples collected by Geoinformatics were submitted to Alaska Assay Laboratories for preparation. Pulps were submitted to ALS-Chemex by the preparation laboratory for assaying. Geoinformatics used the sample preparation and assaying protocols and quality control measures developed by Kennecott. Gold was assayed by fire assay and atomic absorption finish (AuAA23) on thirty gram sub-samples and for a suite of thirty-four elements (including copper and silver) by aqua regia digestion and ICP-AES (method code ME-ICP41) on 0.5 gram sub-samples. Elements exceeding concentration limits of ICP-AES were re-assayed by single element aqua regia digestion and atomic absorption spectrometry (method code element-AA46).

Quality control measures are typically set in place to ensure the reliability and trustworthiness of exploration data. This includes written field procedures and independent verifications of aspects such as drilling, surveying, sampling and assaying, data management and database integrity. Appropriate documentation of quality control measures and regular analysis of quality control data are important as a safeguard for project data and form the basis for the quality assurance program implemented during exploration.

Analytical control measures typically involve internal and external laboratory control measures implemented to monitor the precision and accuracy of the sampling, preparation and assaying. They are also important to prevent sample mix-up and monitor the voluntary or inadvertent contamination of samples. Assaying protocols typically involve regular duplicate and replicate assays and insertion of quality control samples to monitor the reliability of assaying results throughout the sampling and assaying process. Check assaying is typically performed as an additional reliability test of assaying results. This typically involves re-assaying a set number of sample rejects and pulps at a secondary umpire laboratory.

The exploration work conducted by Kennecott was carried out using a quality assurance and quality control program exceeding industry best practices as documented in a data management manual describing all aspects of the exploration data acquisition and management including mapping, surveying, drilling, sampling, sample security, assaying and database management.

For drilling, Kennecott implemented comprehensive external analytical quality control measures. Control samples were inserted in all batches of twenty core samples submitted for preparation and assaying at a rate of one blank, one project specific standard, one field duplicate, one coarsely crushed duplicate and one pulp replicate. The pulp duplicates were organized in batches of twenty-five to fifty samples and submitted by Alaska Assay Laboratories to the Acme Assay Laboratories for check assaying and screen tests. Kennecott also relied on the internal control measures implemented by the primary laboratory.

Two sample blanks were used by Kennecott. A barren andesite rock (OPPBLK-1) collected on outcrop (522,399 metres east and 6874,144 metres north; Nad27, zone 5) and a barren porphyritic andesite (WP-BLK-1) intersected in borehole 04-DD-WP-01. A blank sample (1-3 kilograms in weight) was usually inserted after a "mineralized" core sample at a rate of one in twenty samples.

For the Whistler Project, Kennecott fabricated three project specific standards (WPCO1, WP-MG1 and WP-HG1; Table 11-1) from coarse rejects from two boreholes drilled at Whistler (WP04-04-17 and WH04-01-17). Coarse rejects from core samples were aggregated to create three composite samples yielding low, medium and high copper and gold values. Each composite sample was prepared by Alaska Assay Laboratory to yield homogenized pulverized samples. Five separate sub-samples of each standard were then submitted to five commercial laboratories for assaying. Each standard sample was assayed twice at each laboratory yielding fifty assay results that were analyzed to determine the tolerance intervals reported in the table below for each standard.

Table 11-1 Assaying Specifications for the Project Specific Reference Material Used on the Whistler Project

	Gold (ppb)				Copper (ppm)			
Standard	**Mean**	**Stdv**	**+2 Stdv**	**-2 Stdv**	**Mean**	**Stdv**	**+2 Stdv**	**-2 Stdv**
WP – C01	480.7	26.1	533.0	428.5	2,801.6	56.9	2,915.5	2,687.7
WP – MG1	1,714.8	122.5	1,959.8	1,469.8	2,593.8	51.9	2,697.0	2,490.6
WP – HG1	4,693.3	190.0	5,073.2	4,313.4	6,160.0	132.6	6,425.3	5,894.7

The quality control program developed by Kennecott was mature and overseen by appropriately qualified geologists. Geoinformatics implemented the Kennecott procedures.

In the opinion of MMTS, the exploration data collected by Kennecott and Geoinformatics on the Whistler Project utilized adequate quality control procedures that generally meet or exceed industry best practices for a drilling stage exploration property.



Figure 11-1 Samples at Airstrip Ready for Shipping

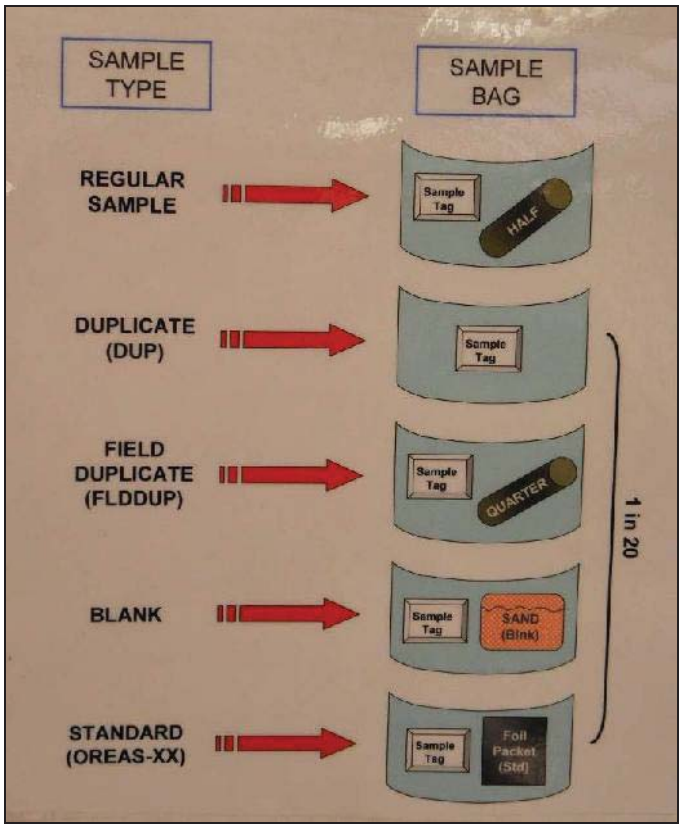


Figure 11-2 Sampling Protocol

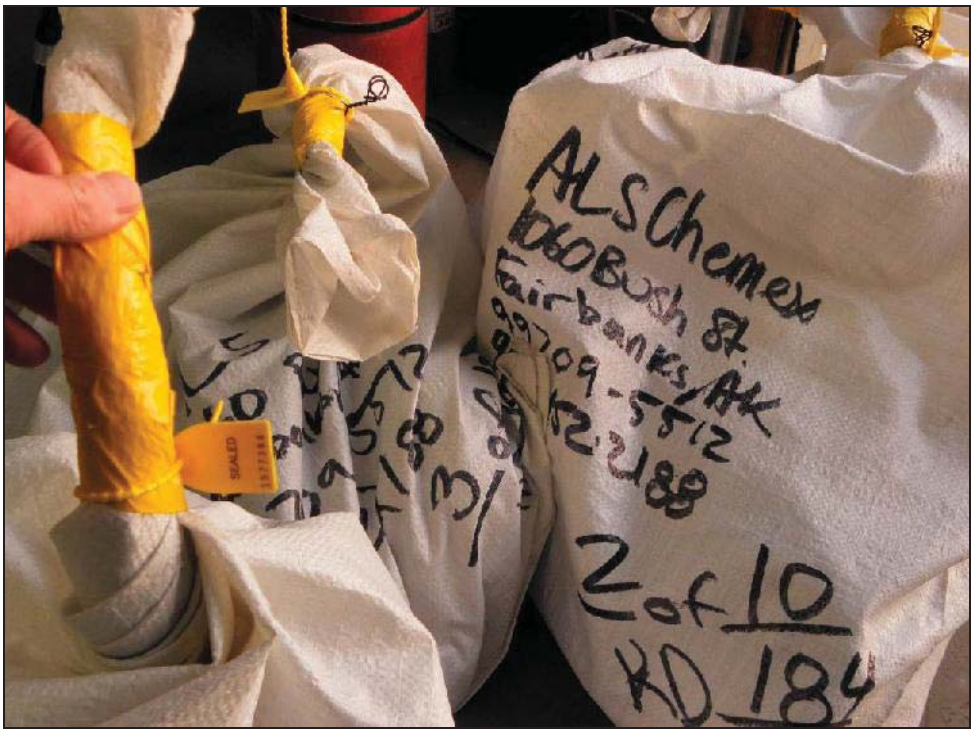


Figure 11-3 Sample Bags with Security Tags

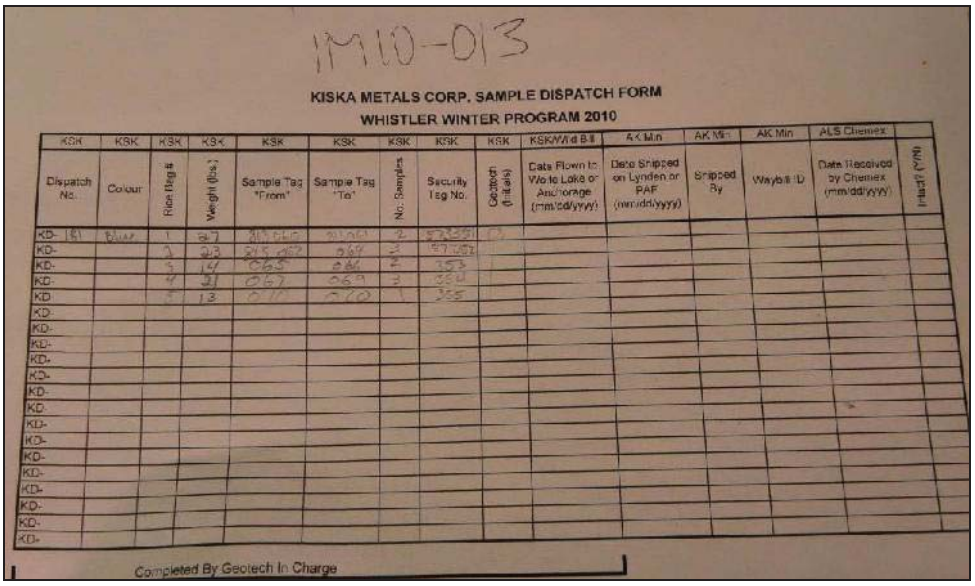


Figure 11-4 Sample Dispatch Form

12.0 Data Verification

MMTS has completed numerous verification steps, including:

- Site visit on the 13 and 14 of September 2010, where the following jobs were observed, drilling, core logging, sampling, and database management. Old drillhole collars were located by GPS, and drill core was examined.
- Comparing original assay results against the database, a total of 1,258 entries for Au, Cu, and Ag.
- Completing checks on the QA/QC program.

Kiska implemented a QA/QC program which included blanks, duplicates, field duplicates, and standards. The core for the Cominco drilling was not available for data verification. However, it represents 8% of the total drilling primarily within 100m of surface and comparisons of assayed grades with subsequent drilling did not indicate any material bias.

Table 12-1 shows the number and type of QA/QC samples from the 2010 drilling program.

Table 12-1 2010 QA/QC Sampling Program

Sample Type	No. Samples	Percent of Totals
Original	1171	79.7
Standards	74	5.1
Blanks	77	5.2
Duplicates	75	5.1
Field Dups	72	4.9
Total	**1469**	**100**

Results from the blank sampling program are shown in Figure 12-1 to Figure 12-9. For gold, the results generally show very low gold content, with highs of 16ppb in 2007, 400ppb in 2008 (one sample), and 325ppb in 2010 (two samples). For silver, there is a high of 1ppm in 2007, 5.5ppm in 2008, and 1.8ppm in 2010. For copper, high values include 160ppm in 2007, 1800ppm in 2008, and 3250ppm in 2010.

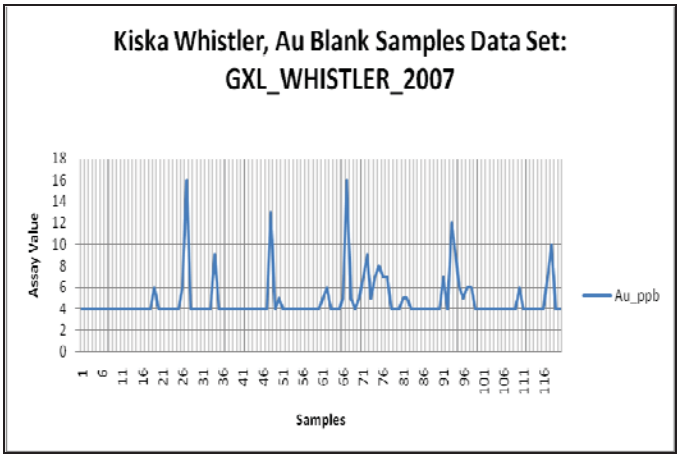


Figure 12-1 2007 Blank Samples, Gold

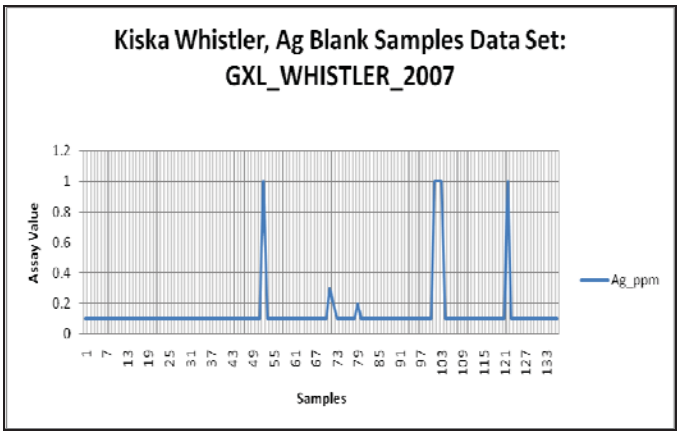


Figure 12-2 2007, Silver Blank Samples

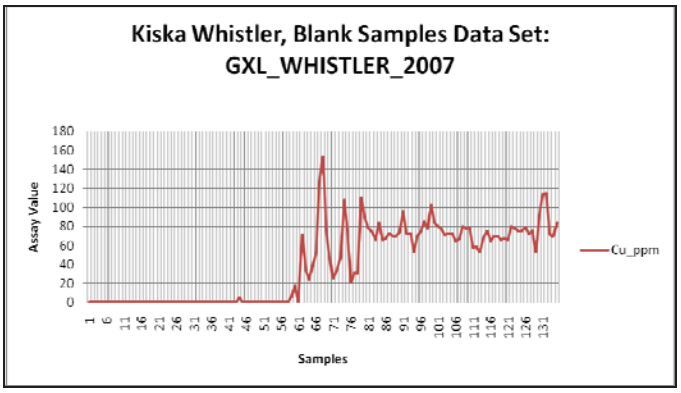


Figure 12-3 2007 Blank Samples, Copper

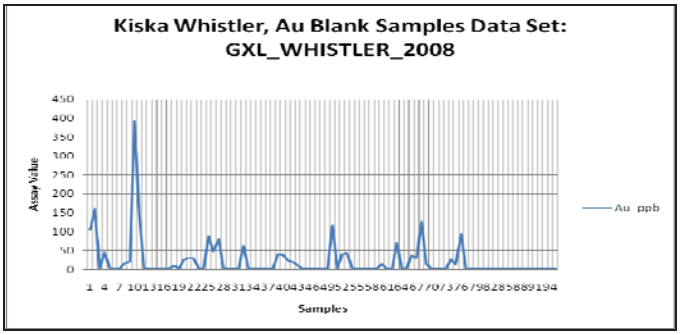


Figure 12-4 2008 Blank Samples, Gold

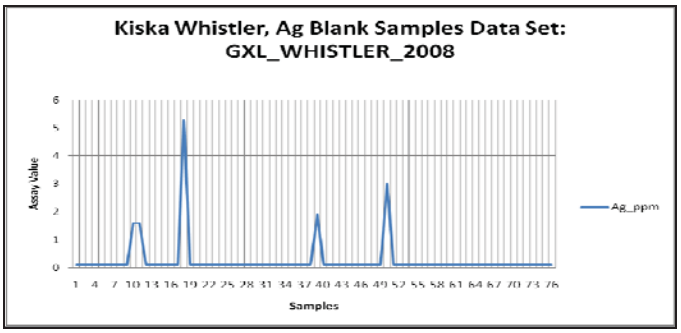


Figure 12-5 2008 Blank Samples, Silver

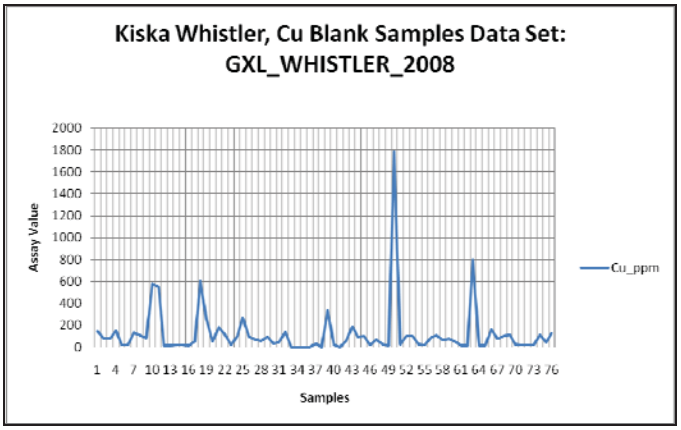


Figure 12-6 2008 Blank Samples, Copper

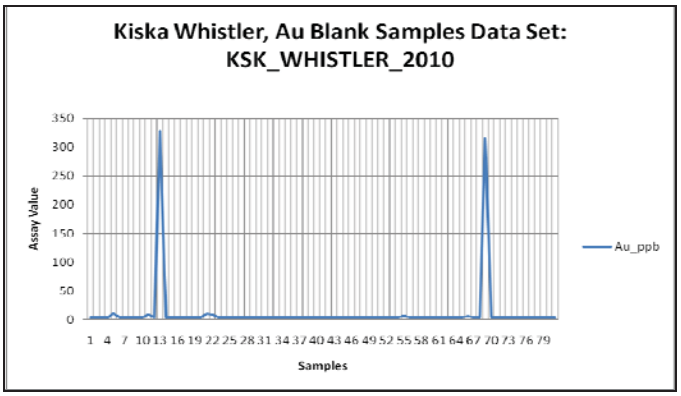


Figure 12-7 2010 Blank Samples, Gold

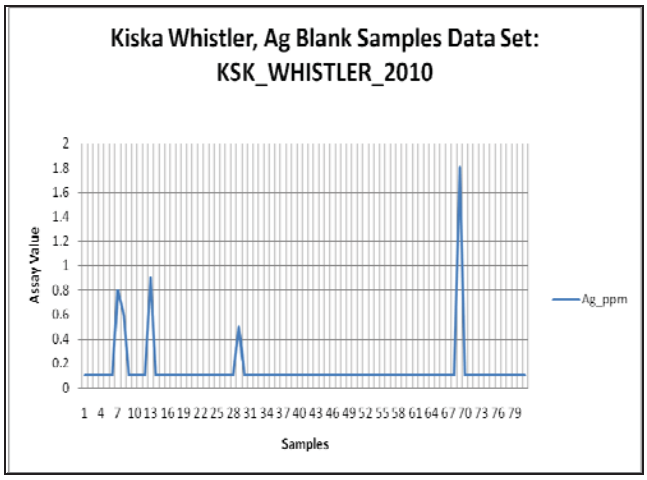


Figure 12-8 2010 Blank Samples, Silver

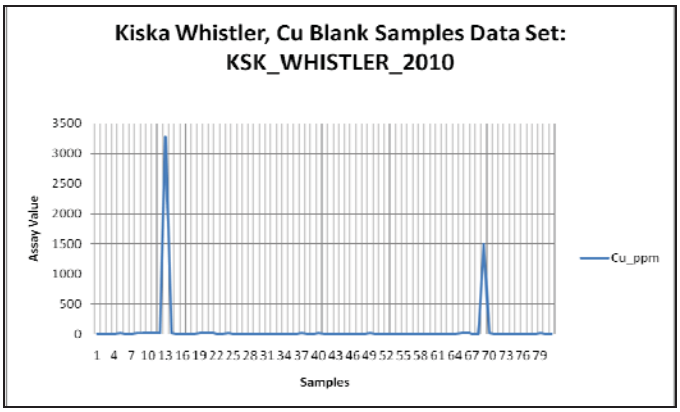


Figure 12-9 2010 Blank Samples, Copper

Field duplicate samples represent core samples that have been quartered. Table 12-2 summarizes the field duplicate results. The F-test is a comparison of variances and the results indicate that the variances for all three elements appear to represent the same population. The Student's T-test is a comparison of means, and again, for all three elements the results indicate that the means appear to represent the same population.

Table 12-2 Summary of Duplicate Samples

Parameter	Au (ppb) Orig.	Au (ppb) Dup.	Ag (ppm) Orig.	Ag (ppm) Dup.	Cu (ppm) Orig.	Cu (ppm) Dup.
Population	245	241	247	239	237	237
Minimum	4	0	0	0	4	4
Maximum	2180	3310	13	11	5670	10000
Mean	190.51	196.51	1.30	1.14	1042.08	1057.45
Standard Deviation	293.19	338.81	1.71	1.44	1081.82	1214.95
CV	1.539	1.724	1.320	1.261	1.038	1.149
F-test	0.749		1.414		0.793	
Student's T-test	0.21		1.08		0.15	

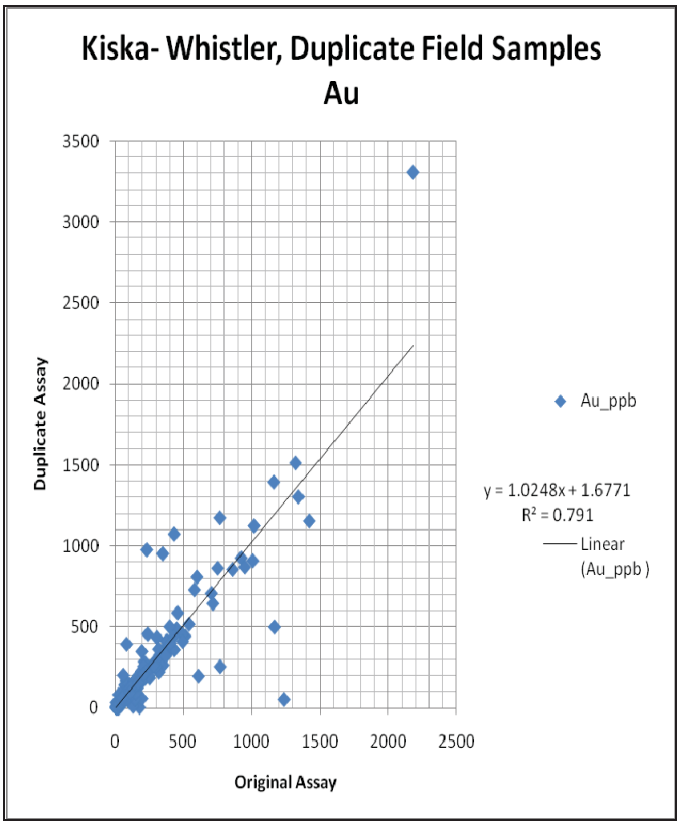


Figure 12-10 Duplicate Samples, Gold

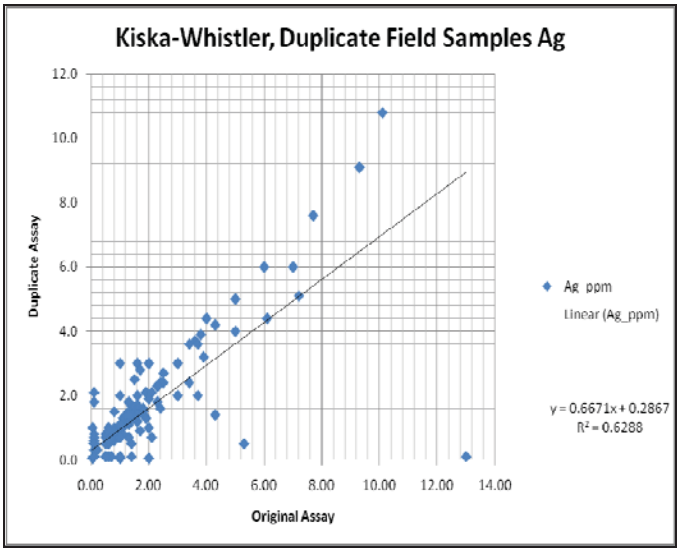


Figure 12-11 Duplicate Samples, Silver

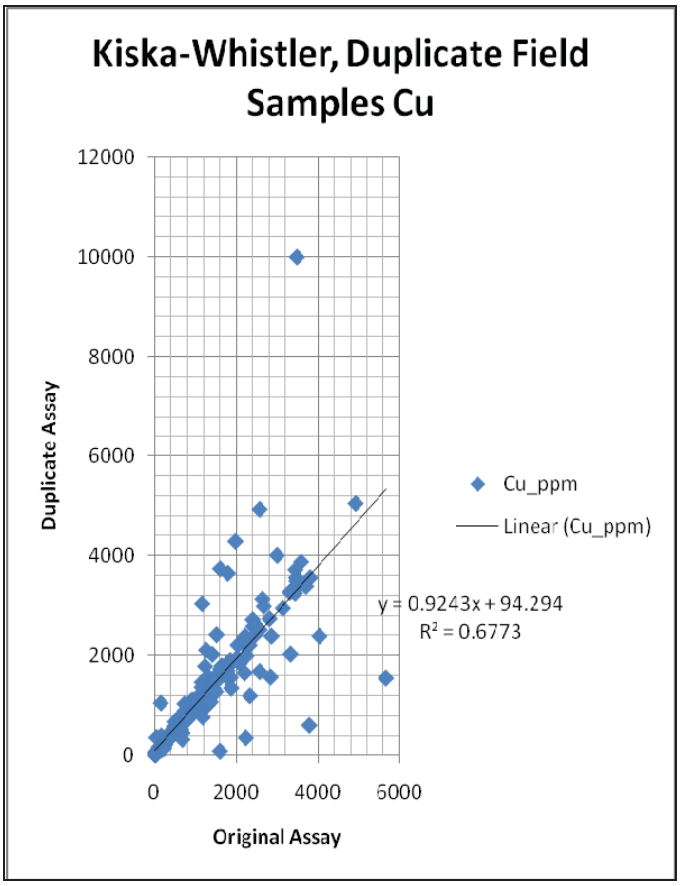


Figure 12-12 Duplicate Samples, Copper

The standard sampling program involves inserting a standard into the sample stream every 20 samples. Standard OREAS-54Pa has an accepted gold content of 2.9ppm with a standard deviation of 0.102ppm, and an accepted copper content of 15500ppm with a standard deviation of 242.536ppm, and was used seventeen times. As shown in Figure 12-13 and Figure 12-14, Au was reported low once, while Cu was reported high once.

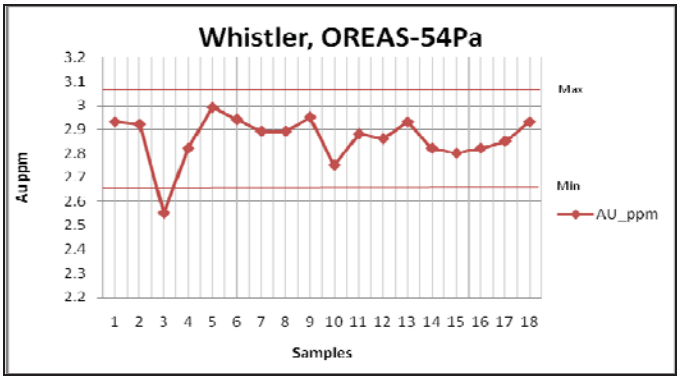


Figure 12-13 Standard Sample, OREAS-54Pa, Gold

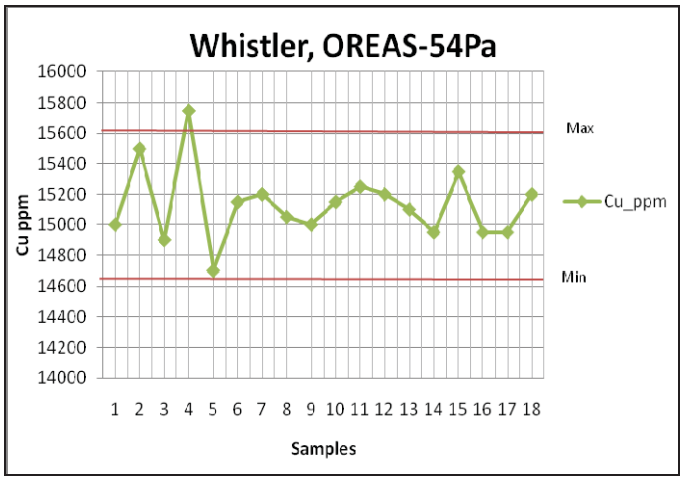


Figure 12-14 Standard Sample, OREAS-54Pa, Copper

Standard OREAS-53Pb has an accepted gold content of 0.623ppm with a standard deviation of 0.102ppm, and an accepted copper content of 5460ppm with a standard deviation of 845.818ppm, and was used twelve times. As shown in Figure 12-15 and Figure 12-16, both Au and Cu were reported high once and low once.

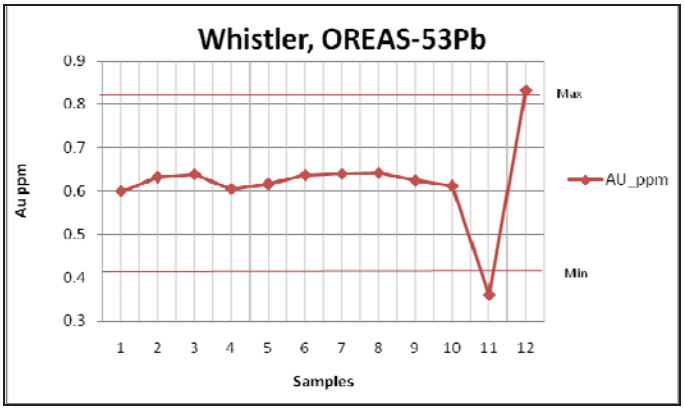


Figure 12-15 Standard Sample, OREAS-53Pb, Gold

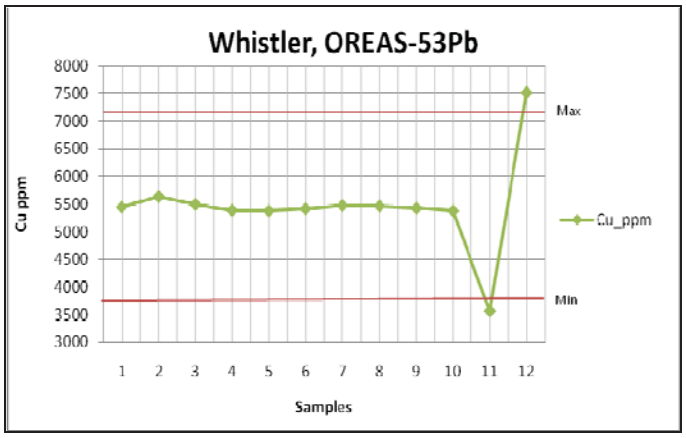


Figure 12-16 Standard Sample, OREAS-53Pb, Copper

Standard OREAS-52c has an accepted gold content of 346ppb with a standard deviation of 17ppb, and an accepted copper content of 0.344% with a standard deviation of 0.009%, and was used thirty-six times. As shown in Figure 12-17 and Figure 12-18, both Au were reported high once, while Cu was reported low once.

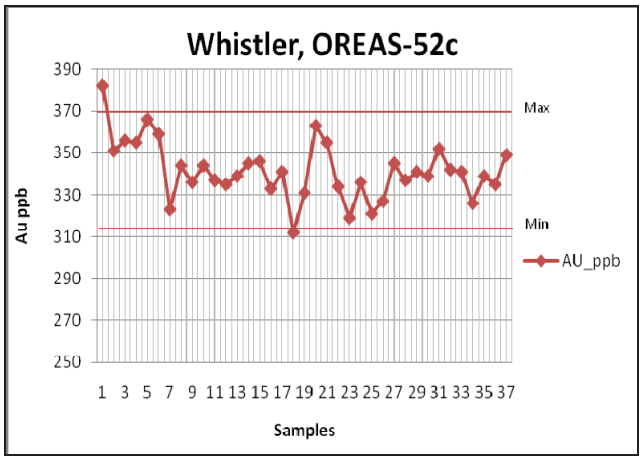


Figure 12-17 Standard Sample, OREAS-52c, Gold

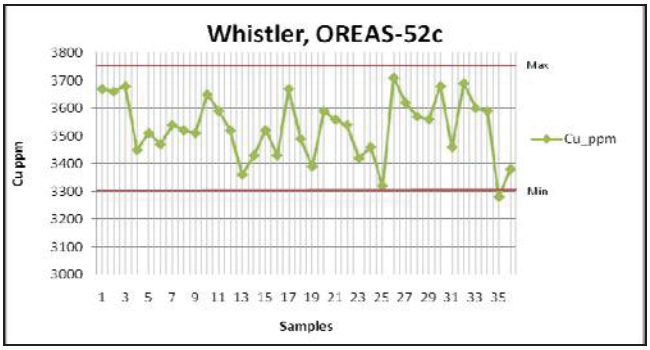


Figure 12-18 Standard Sample, OREAS-52c, Copper



Figure 12-19 Whistler, Drillhole 07-06



Figure 12-20 Whistler, Drilling hole 10-23



Figure 12-21 Whistler, Core Storage Area near Camp

BRI has not completed any sampling or drilling on the Whistler Project since acquiring it on August 5, 2015. No further drilling has been completed on the Whistler Deposit specifically since 2010; therefore there has been no material change to the deposit since the stated site visit.

13.0 Mineral Processing and Metallurgical Testing

Metallurgical testing has been carried out in three phases starting with the 2004/05 preliminary testing in Salt Lake City under the general supervision of Kennecott and culminating in the two phases under Kiska Metals and conducted at G&T Laboratories in Kamloops during 2010-2012. These three phases are described separately below.

13.1 Summary of Preliminary Metallurgical Testing, Whistler Deposit (Phase One)

Preliminary metallurgical test-work was carried out at Dawson Metallurgical Laboratories Inc. (DML) in Salt Lake City, Utah from September 2004 until early 2005 with a final report being issued in March of 2005 by George Nadasdy. Portions of that report are excerpted here to define the materials tested and the general approach to the testing. The work was carried out under the direction of Rio Tinto Technical Services representing Kennecott.

Three different sample composites were tested. The samples were differentiated by sample history and particle size and also by lead/zinc content. The three designations were **Original Composite, New Core Sample** and **Low Lead-Zinc Composite**.

13.1.1 Sample Preparation

A total of approximately 180, coarse assay reject interval samples were received at DML on September 13, 2004 from Kennecott Exploration. All of the individual samples from the entire drillhole WH-04-05-21 (from 2.32 to 328.56 meters) were received. Kennecott selected an ore interval (from 117.6 to 200.2 meters) from this drillhole for testing.

The original composite was produced by including every other individual assay reject sample from the 117.6 to 200.2 meter ore interval. The original composite represented a total of 42.2 meters of ore and weighed 88.7 kg. The composite was air dried and stage crushed to minus 10 mesh in preparation for testing. The minus 10 mesh composite was mixed in a “V” cone blender and split into batches. A 50 kg test sample was rotary table split into 2.0 kg test charges. A 37.6 kg reserve sample was also made. All ore samples were kept in the DML freezers to reduce sample oxidation.

Initial testwork on the original composite produced low rougher concentrate copper grades due to sulfide activation (pyrite, galena and sphalerite floating along with the chalcopyrite). On November 10, 2004, a second Whistler ore sample was received for testing. This second sample was the remaining ½ of Kennecott’s cut core from the same drillhole (WH-04-05-21) and represented material from 140.6 to 155.3 meters. Some of the higher grade lead-zinc core was removed by Kennecott geologists and not included in this second sample. This core sample was designated by as the “new core sample”. The new core sample weighed 20kg; it was stage crushed to minus 10 mesh mixed in a “V” cone blender and then rotary table split into 2kg test charges.

A third Whistler ore sample was prepared at DML at the end of November for continued testwork and was designated by as the low lead-zinc composite. The low lead-zinc composite was made from the remaining individual coarse assay reject samples not used in the original composite (from 117.6 to 200.2 meters). At the direction of Kennecott, selected high grade lead-zinc samples were omitted from this

low lead-zinc composite. The low lead-zinc composite weighed 71 kilograms and was prepared in a similar fashion to the original composite.

13.2 Testing

Three (3) separate ore samples from the gold-copper bearing Whistler Project in Alaska were tested from September 2004 through March 2005. Preliminary metallurgical testwork included gravity concentration or flotation to recover the copper and gold. The three (3) ore samples were designated as: the original composite, the new core sample and the low lead-zinc composite, as previously described.

Testwork conducted on the three (3) Whistler ore samples included the following:

1. **Original Composite**: DML comparative (ball mill) grind work index test; a gravity centrifugal concentration and amalgamation test; a head assay screen at a (RM) P80=140µm grind; rougher kinetic-reagent scoping tests; rougher kinetic-pH tests (pH 9.3, 10.0 and 10.8); three (3) stage cleaning tests at different primary and regrind sizes and cleaner tests at pH 9.3 or 11.0.
2. **New Core Sample**: a gravity concentration and amalgamation test; a rougher kinetic grind series P80= 162, 111, 80 and 66 microns and a three (3) stage cleaner test at a P80=80µm primary grind, a P80=48 regrind size and a cleaner pH of 9.3.
3. **Low Lead-Zinc Composite**: a rougher kinetic test at a P80=80µm grind; three (3) stage cleaning tests at a P80=80µm primary grind and P80=37µm regrind and a cleaner pH of 9.3 or 11.0. A cleaner test was also conducted with SO_2 added to the first cleaner. A final cleaner test was conducted to generate a third cleaner concentrate for a suite of assays for smelter evaluation.

13.2.1 Results from Preliminary Testing

The initial work on the Original Sample resulted in lower than expected rougher and cleaner grades and high levels of lead and zinc reporting to the cleaner concentrate. This was attributed to both the high lead and zinc in the feed and the fact that the composite was created from assay rejects that had potentially aged at a relatively fine crush between core preparation and metallurgical testing.

The high lead and zinc values in the Original Sample were essentially concentrated in two of the twenty-five intervals used to make up the composite. For the two subsequent composites the high lead-zinc intervals were left out of the mix. In addition, the second sample to be tested (New Core Sample) was produced from ½ section core that provided less opportunity for the deleterious effects of ageing when stored under ambient atmospheric conditions at finer sizes.

In general, it was found in the early work that gravity recovered gold was in the finer size ranges with an average gold grain size of minus 400 mesh (37 microns) so this avenue was not pursued in later testwork on the assumption that liberated gold would be recovered through flotation.

In addition, it was also found that a primary grind of ~80% passing 80 microns was required for best recovery of both copper and gold.

Below is the excerpted table from the Dawson report indicating cleaning test results for the three composites. The 3rd Cleaner copper grade increased from 16% to 21% to 23% for the Original, Low Pb-

Zn and New Core samples respectively. Copper recoveries were 80% to 84% with gold ranging from 60% to 65%.

Table 13-1 Three Stage Cleaning Tests

P – 2825: Kennecott – Whistler Project Three Stage Cleaning Test – pH 9.3 in Rougher and Cleaner												
			Calc. Head		Final Trail		No.3 Cleaner Concentrate				Percent Recovery	
Test No.	Sample	Grind Prim/RG P80=µ	% Cu	ppm AU	% Cu	ppm AU	Wqt.%	% Cu	ppm Au	% Insol.	Cu	Au
14	Orig. Comp.	140/53	0.642	2.36	0.128	0.749	3.80	12.4	39.4	7.1	73.5	63.5
23	Orig. Comp.	80/34	0.635	2.56	0.087	0.842	3.20	16.4	51.9	7.2	82.6	64.8
21	New Core	80/48	0.804	3.21	0.087	0.983	2.99	22.5	64.4	4.9	83.5	60.0
30	Low Pb-Zn	80/37	0.531	2.54	0.077	0.942	2.04	20.8	74.1	5.5	79.9	59.4
Cytec 3477 in grind at 0.015 lb/ton and NaIPX in scavenger at 0.004 lb/ton. No additional collector added to either regrind or cleaners.												

The poor performance on the original composite material was attributed to the high lead and zinc content and the effects of sample size and ageing. The New Core material responded best and the results with the Low Pb-Zn were close but not up to the level of the New Core material. Thus there was a significant improvement with the exclusion of the high Pb-Zn intervals and a further improvement with the "fresh" half core. Crushed assay rejects are generally problematic for testwork with samples containing copper, lead and zinc minerals.

As per the table above, regrind sizes ranged from 34 to 53 microns. This leaves some potential for finer regrinding to improve cleaner separations if necessary in the future. In addition, there is further potential for copper cleaner enhancement with a higher pH regime in that part of the circuit as long as it does not have a significant negative effect on gold recoveries.

The DML report further indicates that in an analysis of cleaner test products the gold values tend to track closely with the deportment of the copper as opposed to following the iron.

13.2.2 Preliminary Conclusions

In any future work care must be taken to ensure the material to be tested is as fresh as possible and has been stored in such a manner as to minimize the potential for surface oxidation. The resource data must be analyzed to assess the presence, level and distribution of lead and zinc throughout the deposit and appropriate samples selected for metallurgical testing so that they reflect the nature of the resource and the likely plant feed. Care must also be taken to ensure that the copper and gold grades of the feed for any further testwork reflect the expected levels in the resource.

For first pass metallurgical testing reasonable copper and gold recoveries were achieved at less than optimum concentrate copper grades. Care and attention to sample preparation and handling (as mentioned above) along with more in depth testing should allow for improvements in both recoveries and grades. Further reagent screening should be carried out both to enhance recoveries and selectivity and to attempt to allow for processing at a coarser primary grind.

Combined cleaner and scavenger tails accounted for the loss of 29% to 35% of the contained gold and 10% to 14% of the copper. These preliminary cleaning tests all involved open circuit cleaning. In the normal course of more detailed flowsheet development (reagent and regrind optimization plus closure of the cleaning circuit) one could potentially expect to be able to improve copper recoveries to ~85% into a concentrate with a copper grade in the range of 25% to 27%. A combination of the flotation improvements and the application of additional gold recovery techniques in the cleaner circuit might potentially improve gold recovery to the 75% range.

In addition, as mentioned above, future test-work should be carried out on material with feed grades reflecting the likely grade that would be mined and sent to the plant. Lower feed grades tend to somewhat reduce metal recoveries.

13.3 Summary of Preliminary Metallurgical Testing, Island Mountain Deposit (August 21, 2010) (Phase 2)

13.3.1 Introduction

Two holes (IM09-001 and IM09-002) were drilled at Island Mountain in 2009. These holes produced interesting gold and copper values and also what appeared to be “interesting” associations between the contained gold, copper, pyrrhotite and magnetite. It was decided to carryout preliminary metallurgical testwork on the available sample material in order to assess the mineralogical associations and the potential for effective treatment of the rock to recover gold and copper. Core logging indicated an apparent difference between the upper and lower mineralized intervals of the drillhole. The upper mineralized interval had higher copper, but lower gold values, and the lower mineralized interval tended to contain more pyrrhotite. The lower region also represented the greater tonnage potential.

13.3.2 Sample Selection

The drill data had been assessed in terms of a gold equivalent whereby copper and silver values were added to the gold value based on assumed recoveries of 75% for Au and Ag and 80% for Cu. Assumed prices were $550, $8, $1.50 respectively for the three metals. A simple gold equivalent cut-off of 0.30gpt ($5.30/tonne at $550/Oz) was taken. Based on this cut-off, 72 out of 81 two metre intervals were selected from the upper 162 metres of IM09-001 to form an Upper Composite. Similarly 75 out of 111 two metre intervals were selected to form a Lower Composite from the lower 222 metres of the hole. From hole IM09-002, only 20 of 99 two-metre intervals surpassed the selected cut-off. As higher grade intervals were distributed erratically throughout the length of the hole none of this material was used for the metallurgical work.

Quarter core was available for composite preparation and it was shipped to G&T Metallurgical in Kamloops BC for composite assembly and the metallurgical testing.

13.3.3 Feed Grade

The following table provides the analyses of the elements of interest in the two composites.

Table 13-2 Summary of Analysis of Composites from IM09-001 and IM09-002

	Cu	Pb	Zn	Fe	S	Ag	Au	C
Upper Comp Head - 1	0.15	0.06	0.02	8.50	2.36	3.20	0.49	0.10
Upper Comp Head - 2	0.15	0.06	0.02	8.30	2.08	3.70	0.44	0.09
Average	**0.15**	**0.06**	**0.02**	**8.40**	**2.22**	**3.45**	**0.46**	**0.09**
Lower Comp Head - 1	0.050	0.06	0.01	5.70	2.77	2.30	0.80	0.17
Lower Comp Head - 2	0.048	0.06	0.01	5.90	2.82	1.60	0.90	0.19
Average	**0.049**	**0.06**	**0.01**	**5.80**	**2.80**	**1.95**	**0.85**	**0.18**
	%	%	%	%	%	gpt	gpt	%

The copper values in the Upper Composite are on the lower side of normal feed grades whereas the copper values in the Lower Composite are well below where one would generally expect to make saleable copper concentrate grades with any significant recovery. The gold however, particularly in the Lower Composite, contributes a significant value to the feed.

13.3.4 Test Program

Various processing options were applied to the sample material in order to assess both the association between the gold and the other minerals and to assess the potential for economic recovery of the copper and gold.

The preferred and simplest option would be to produce a saleable copper concentrate containing the bulk of the copper and also the bulk of the gold. Another possible route would be to leach the gold from the whole ore with cyanide. The leaching approach could possibly produce good gold recovery but would not recover copper values and would likely involve significant cyanide consumption due to the copper content of the feed. Hybrid approaches would involve the selective flotation of a saleable copper concentrate with some of the gold and leaching of some or all of the flotation tailings to recover un-floated gold values.

As well as recovery considerations, a significant concern in cyanide leaching arises from the consumption of cyanide by other metals and minerals in the feed material. Of particular interest are copper and pyrrhotite. Depending on the form and activity of the copper and iron minerals significant quantities of cyanide can be tied up as copper and iron cyanides.

The current test program included bulk flotation of copper and gold, selective flotation of copper, cyanidation of the feed material and cyanidation of the combined tailings from selective open circuit cleaning tests performed on each of the composites. Due to the expectation that the Lower Composite likely represented the greater portion of “minable” material testwork addressed this sample with confirmatory work then being applied to the Upper Composite.

13.3.5 Metallurgical Results

Bulk Flotation

Various grinds plus some pH modification were applied to the bulk rougher flotation of both composites. In general the best copper recoveries were achieved with flotation at a grind of ~ 80% passing 100 microns and a pH of 10. Gold recoveries were not as sensitive to the changes.

Table 13-3 Bulk Flotation Results

Material	Feed % Cu	Copper Conc % Cu	Rec %	Feed gpt	Gold Conc gpt	Rec %
Upper Composite Rougher	0.15	0.90	79.66	0.50	2.82	74.41
Lower Composite Rougher	0.05	0.41	89.15	0.96	7.12	80.41
Lower Composite Rougher	0.05	0.31	87.94	0.94	5.41	81.02
Lower Composite Cleaner	0.05	1.40	76.02	0.94	39.40	70.73

Copper recoveries were reasonable considering the low head grades – particularly in the case of the Lower Composite. However, given the value of gold in the feed, gold recoveries were considered to be too low. In addition, a saleable copper concentrate would require a 15 to 20 fold increase in the copper grade which would further reduce the recovery of both metals.

The low gold recoveries also indicate that there is gold associated with some other mineral that is not floating in the non-selective bulk circuit.

Selective Flotation

Reagent changes were made to try and float a cleaner copper concentrate using open circuit cleaning.

Table 13-4 Selective Cleaner Flotation

Material	Feed % Cu	Conc % Cu	Rec. Cu - %	Rougher Rec.	Feed Au gpt	Conc Au gpt	Rec. Au - %	Rougher Rec.
Upper	0.14	22.5	63.4	77.3	0.50	51.3	42.7	61.5
Lower	0.05	23.3	70.6	84.1	0.99	294	44.0	45.6

The selective flotation produced similar but somewhat lower copper rougher recoveries than those achieved in the bulk flotation circuit. There is a potential to improve these with further optimization. The copper loss between roughing and cleaning was similar to that experienced in the bulk circuit. Both these aspects can be addressed by further reagent and operating condition adjustments. Further testwork with closed circuit cleaning will significantly reduce the cleaning circuit losses. Gold recovery was much lower during roughing and was significantly reduced during cleaning for the Upper Composite. This confirms the earlier suggestion that there is a significant portion of the gold that is associated with some mineral or minerals other than the copper bearing ones.

13.3.6 Whole Ore Leach

The whole ore leach approach worked well – particularly for the Lower Composite.

Table 13-5 Whole Ore Cyanidation

	Feed (gpt)	Residue (gpt)	Recovery (%)	Cyanide Strength (kgpt)	Cyanide Consumption (kgpt)
Upper Composite	0.54	0.06	89.06	2.00	1.82
Lower Composite	0.82	0.08	90.22	0.50	0.46

For both composites ~90% of the gold was extracted in 48 hours. Higher solution strength was required for the Upper Composite and this resulted in significantly higher cyanide consumption.

13.3.7 Leaching of Selective Flotation Tails

Based on the results of the whole ore leach and the selective cleaner flotation, the flotation tailings for both composites were leached in cyanide for 48 hours at solution strength of 0.50 kgpt.

Table 13-6 Cyanidation of Selective Flotation Tailings

	Feed (gpt)	Residue (gpt)	Recovery (%)	Cyanide Strength (kgpt)	Cyanide Consumption (kgpt)	Flotation + Cyanidation Recovery (%)
Upper Composite	0.18	0.08	56.52	0.50	0.40	75.08
Lower Composite	0.51	0.09	81.44	0.50	0.38	89.60

Leaching results were particularly good for the Lower Composite at 81% and the overall recovery by flotation and cyanidation was almost 90%. Similar to the results of the whole ore leach, the leaching conditions for the Upper Composite can likely be optimized to improve the extent and rate of leaching for the flotation tailings from the Upper material.

13.3.8 Overall Recoveries

Potentially 90% of the gold in the Lower Composite can be recovered either by direct cyanidation or by flotation followed by cyanidation of the flotation tailings. Similarly almost 90% of the gold can be leached from the Upper Composite and further work should improve the overall gold recovery from this material by the combined flotation-leach approach.

More in depth work should be performed to improve flotation grades and recoveries. In addition, once an optimized flotation approach has been established the opportunities to produce a high grade copper concentrate followed by the production of a low grade gold concentrate for subsequent leaching should be investigated. This could substantially reduce the capital and environmental ramifications of whole ore or full tailings leaching.

13.3.9 Conclusions

The preliminary testing Indicated that the Island Mountain material tested is amenable to copper recovery by flotation and that the gold is relatively free milling. This is particularly true of the greater

portion of the material represented by the Lower Composite. The results indicate that in the range of 90% of the gold in the Lower Composite can be recovered by either whole ore leaching or a combination of flotation and leaching of the tailings. With further development work, copper flotation recoveries will likely rise to the 80% range for the Lower Composite.

Similarly, gold recovery in the range of 90% can be achieved by whole ore leaching of the Upper Composite. Further flotation work on the Upper Composite will improve both copper and gold recoveries to concentrate.

For both materials it was concluded that further metallurgical development and assessment work would still be required to develop the best flowsheet with respect to capital and operating costs, metal recoveries and overall economics.

13.4 Summary of Whistler Deposit Testwork (2012) (Phase 3)

The final round of work was also carried out at G&T Metallurgical Laboratories, now part of ALS Metallurgy, there being continuity of personnel and experience with the Island Mountain testwork previously reported.

The work commenced in August 2012 and was completed by year end and the results presented in its report KM3499 of January 2013.

13.4.1 Metallurgical Samples

Initial work was conducted on core from the 2008 drilling campaign, on sample 08-08 which had been kept in carefully controlled conditions and was believed to be still fresh. Arrangements had been made to obtain a sample from a similar hole planned for the summer 2012 drilling campaign as a "calibration" check to validate its freshness, especially in view of the aging effects reported in the Kennecott testwork. Unfortunately the cancellation of the 2012 campaign negated this process; however, as is evident from the results presented below, there is no reason to suspect any impact of oxidation on flotation response.

What was a greater concern with respect to this sample was that, following the update to the geological model reported in AMC's letter report of November 2012, it might have been insufficiently representative of the bulk of the mineralization being predominantly in the central quartz-breccia zone, representing only 20% of the tonnage, although 30% of the metal content.

Accordingly a second sample, 10-19 from the 2010 drilling campaign, more representative of the Main Stage Porphyry, although right on the margin of the proposed ultimate pit, was selected for additional tests and in fact became the basis for setting the predicted metallurgical parameters.

Both samples had been divided into high grade, medium grade and low grade samples in accordance with gold grades, with most of the work carried on the medium grade samples, being closer to Resource grades.

Sample grades are tabulated in the following table.

Table 13-7 Sample Head Grades

Sample	%Cu	%Fe	%S	Au gpt	%C
08-08 MG (master)	0.12	5.8	3.6	0.53	0.76
08-08 HG	0.50	4.9	1.8	1.78	0.67
08-08 LG	0.08	4.1	2.7	0.34	1.30
10-19 MG	0.22	2.6	1.9	0.51	1.09
10-19 HG	0.17	3.3	1.1	0.96	1.42
10-19 LG	0.22	3.4	1.7	0.38	1.24

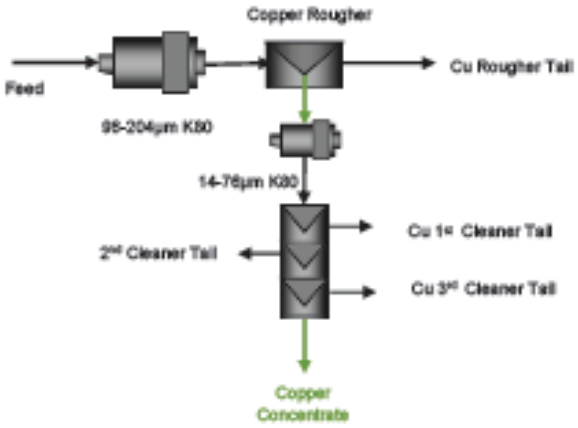
No mineralogical work was carried out. However normative mineralogy calculations show that Sample 08-08 generally has almost twice the pyrite content of Sample 10-19. Sample 08-08 was similar to Island Mountain in this respect.

The testwork program focused mainly on conventional copper flotation; however it soon became evident that improving gold recovery was key so, similar to the direction taken with Island Mountain, the program included work on cyanidation of cleaner tails and also investigation of enhancing gold recovery with pyrite concentrate production.

The flotation and cyanidation testwork flowsheets are shown in Figure 13-1 (abstracted from the ALS KM3499 report).

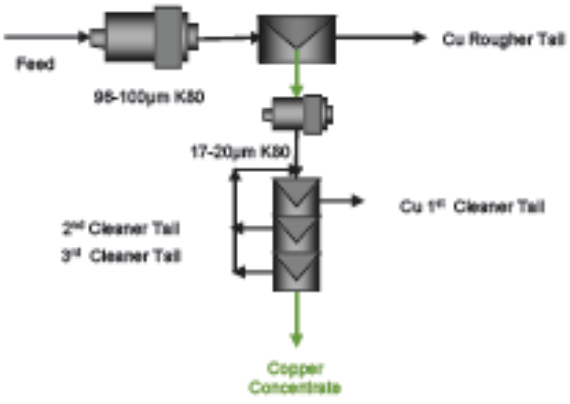
FIGURE 1
FLOTATION AND CYANIDATION FLOWSHEET AND TEST CONDITIONS

Open Circuit Batch Cleaner Flowsheet



Notes: a) A variable number of cleaning stages were used over the cleaning tests. In some tests only two stages were required, in others three.
b) In Tests 7, 9, and 10 a pyrite rougher circuit was added on to the copper rougher tailing.
c) The first to third cleaner tailing from Test 6 and 7 were combined and subjected to a 48 hour cyanidation bottle roll test. Test 9 and 11 are the corresponding CN bottle roll tests for Test 6 and 7 cleaner tailing, respectively.

Locked Cycle Test Flowsheet



Note: A variable number of cleaning stages were used over the locked cycle tests. In some tests only two stages were required, in others three.

Figure 13-1 Flotation and Cyanidation Flowsheet and Test Conditions

13.4.2 Results

The results of the metallurgical testwork for a conventional comminution/flotation flowsheet are summarized below.

13.4.2.1 Comminution

A single standard Bond ball mill work index test was carried out on 10-19MG composite towards the end of the program, and at a closing size of 106µm.

The Bond ball mill work index (BWI) was found to be 19.9kWh/t (compared to the Island Mountain value assumed for the initial flowsheet design of 18.5kWh/t). This result puts Whistler in the very hard range of ball mill hardness.

No SAG mill testing (e.g.) JK Drop weight or SMC tests were included in the program, nor indeed any Bond rod mill work index tests. The QP has used some industry benchmarks and approximations in setting appropriate SAG mill design criteria (see Section 17.2.3) and recommends that these additional comminution tests be a high priority for the next stage of testwork.

13.4.2.2 Flotation

Key parameters in the copper flotation tests were:

- Primary grind target was generally 100µm (some later tests, following the receipt of the BWI result, were done in the 150-200µm range).
- Regrind target was generally 20µm (test 1 at 76µm was a procedural error).
- Cytec 3418A, a specialist copper/precious metal flotation reagent, was used as the primary copper sulphide mineral collector.
- pH in the rougher and cleaner circuits was generally maintained at 10 and 11 respectively, using hydrated lime.

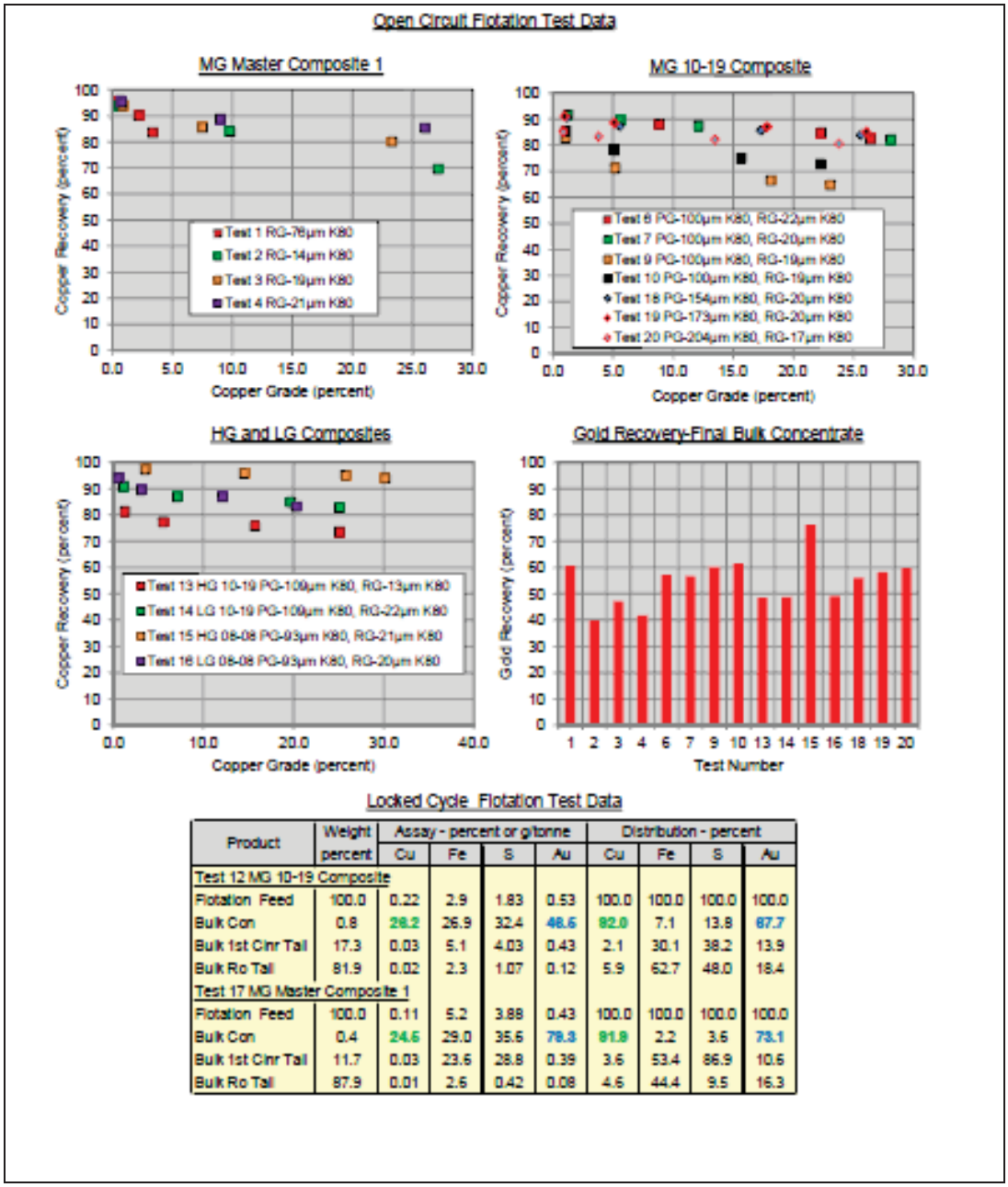
The key results are tabulated and graphed in Figure 13-2 (abstracted from the ALS metallurgy KM3499 report).

In summary the main findings were as follows:

- Open-circuit batch flotation testing achieved fairly consistently 80-85% copper recovery to a 25% Cu concentrate grade; however gold recovery was lower (40-50%) due to lower rougher recoveries and also low cleaner recoveries with significant deportment of gold to cleaner tailings streams.
- From the flotation results, the gold associations were inferred as follows:
  - 60% with chalcopyrite
  - 20% with pyrite (± chalcopyrite)
  - 20% with gangue minerals

The QP strongly recommends that mineralogical studies be a high priority for the next phase of testwork.

- Some attempts were made at recovering gold to a pyrite concentrate for subsequent treatment (a possible alternative to cyanidation of cleaner tails), but overall recovery fell and later work focused on the locked cycle tests as a means of recovering gold reporting in recirculating streams that were not accounted for in simple batch tests.
- Locked cycle tests on both the 08-08 and 10-19 samples proved to be the key to unlocking gold value with substantial improvements to gold recovery from the recycle of intermediate streams (short of pilot-plant testing, locked cycle tests are the best way of replicating a full scale flotation plant). Averaging the results from both and rounding numbers appropriately yielded the following:
  - 92% copper recovery to a 25% Cu concentrate grade
  - 70% gold recovery
- On receipt of the higher than expected BWI results with a significant impact on both capex and opex, some final open circuit batch flotation tests were conducted at coarser primary grinds (154µ, 173µ and 204µ) but retaining the same 20µ regrind size. The results were analyzed in grade-recovery terms and are presented in graphical form in Figure 13-3 and Figure 13-4. Copper grade-recovery performance was retained up to 173µ but showed a significant deterioration at the coarsest grind, whereas gold recovery seemed largely insensitive to primary grind size. Although further work, including definitive locked cycle testing, is required to validate this, the QP believes it is reasonable to assume a primary grind size of 175µ (in round figures) as an option for capex/opex sensitivities.
- Some very preliminary variability tests (four in total) were carried out on the low grade and high grade samples for each main composite. The results showed a high degree of variability in the 70-90% range for copper recovery and 20-30% Cu in final concentrates. Gold recovery was generally constant at around 50% although the 08-08 high grade sample did show a significantly higher recovery of 76%. The QP does not attach much importance to this limited number of results, their having no spatial relationship to the deposit, and would recommend that future variability work be based on spatial and mineralogical/textural parameters rather than grade.



Locked Cycle Flotation Test Data

Product	Weight	Assay - percent or g/tonne				Distribution - percent			
	percent	Cu	Fe	S	Au	Cu	Fe	S	Au
Test 12 MG 10-19 Composite									
Flotation Feed	100.0	0.22	2.9	1.83	0.53	100.0	100.0	100.0	100.0
Bulk Con	0.8	28.2	26.9	32.4	48.6	82.0	7.1	13.8	67.7
Bulk 1st Clnr Tail	17.3	0.03	5.1	4.03	0.43	2.1	30.1	38.2	13.9
Bulk Ro Tail	81.9	0.02	2.3	1.07	0.12	5.9	62.7	48.0	18.4
Test 17 MG Master Composite 1									
Flotation Feed	100.0	0.11	5.2	3.88	0.43	100.0	100.0	100.0	100.0
Bulk Con	0.4	24.6	29.0	35.6	78.3	91.9	2.2	3.6	73.1
Bulk 1st Clnr Tail	11.7	0.03	23.6	28.8	0.39	3.6	53.4	86.9	10.6
Bulk Ro Tail	87.9	0.01	2.6	0.42	0.08	4.6	44.4	9.5	16.3

Figure 13-2 Flotation Test Results

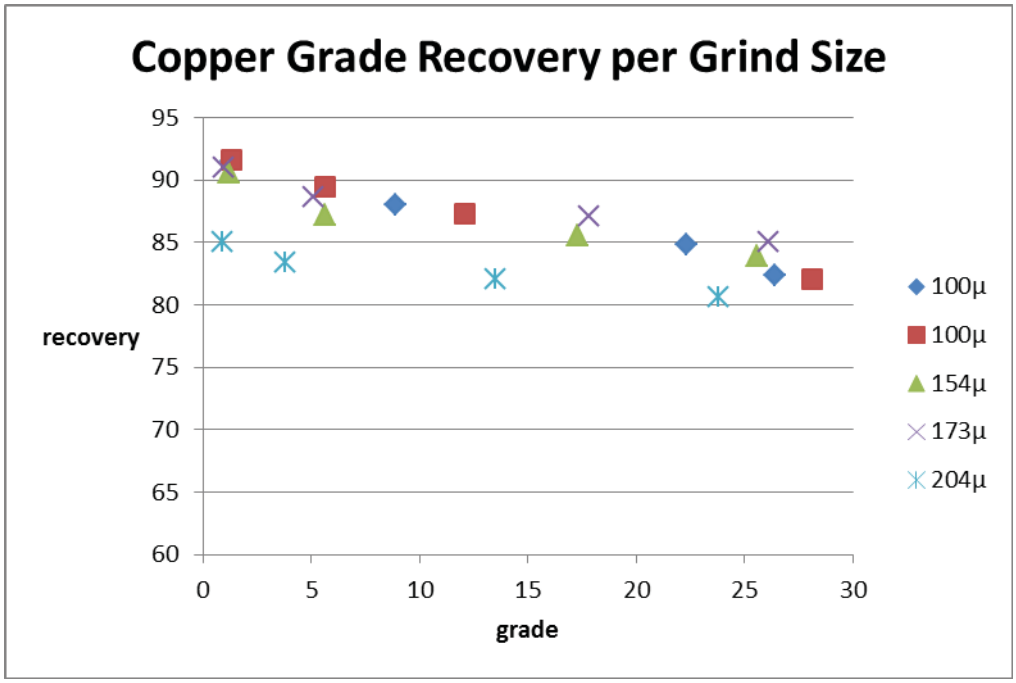


Figure 13-3 Copper Grade Recovery

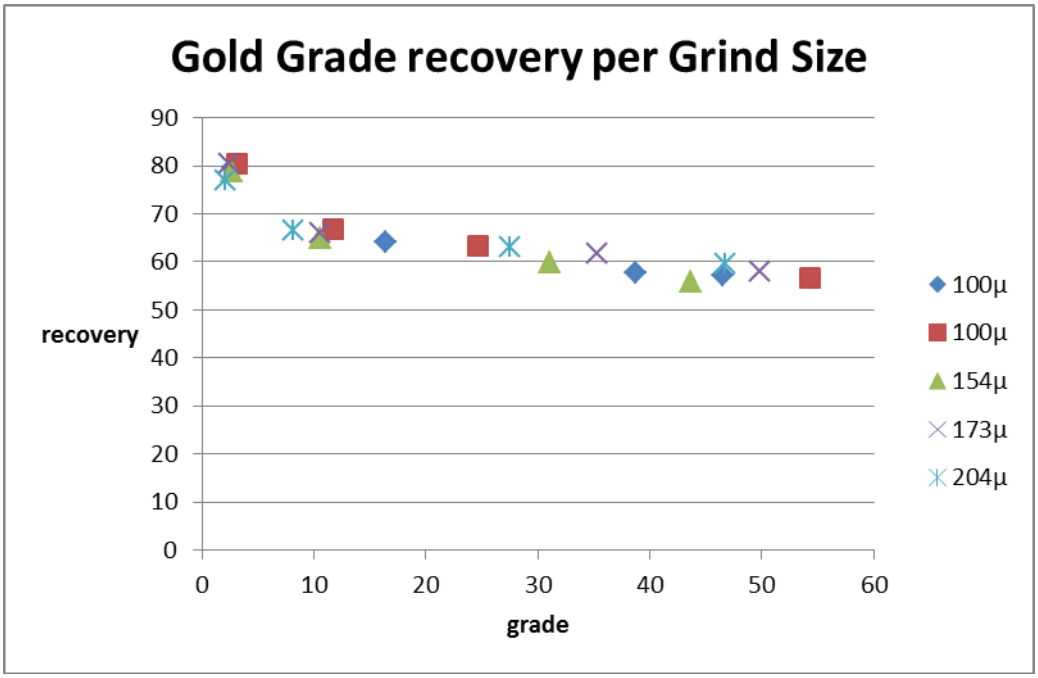


Figure 13-4 Gold Grade Recovery

13.5 Cyanidation

The batch flotation tests had indicated a substantial amount of the gold was reporting to cleaner tails and, pending the results of the locked cycle tests, some cyanidation tests were carried out on combined cleaner tails from tests 6 and 7 on 10-19 samples where 23% of the gold was accounted for in the cleaner tails.

Forty-eight hour gold extractions were 77% to solution, thus overall gold recovery would improve from 57% to approximately 74%. However although cyanide consumption was moderate for a sulphidic stream, the absolute gold grades in cyanidation feed were still low and the marginal return versus costs at current gold and cyanide prices exactly that, marginal. Also the use of cyanide requires a different level of onsite management and therefore is more complicated in terms of its cost benefit.

Given the excellent locked cycle test results already reported, and with overall gold recoveries by flotation being only in the region of 70%, it was decided not to pursue further cyanidation testwork.

13.6 Concentrate Specifications

The final bulk concentrates from cycles II-V of the locked cycle tests 12 (10-19 MG) and 17 (08-08 MG) were analyzed for potentially deleterious elements and the results are shown in Table 13-8.

Concentrates from both samples are remarkably clean and would indicate that the specifications would fall well within typical smelter limits for penalty elements, with no penalty payable.

Normative mineralogy calculations, assuming a simple chalcopyrite:pyrite sulphide blend, suggest the pyrite concentrate from the 08-08 sample to be almost twice that of 10-19, i.e. similar to what was observed in the head samples.

Table 13-8 Minor Element Data

Element	Symbol	Units	Test 12 (10-19)	Test 17 (08-08)
Aluminium	Al	%	0.92	0.68
Antimony	Sb	%	0.02	0.17
Arsenic	As	gpt	135	344
Bismuth	Bi	gpt	<1	<1
Cadmium	Cd	gpt	30	20
Calcium	Ca	%	0.44	0.31
Carbon	C	%	0.33	0.39
Cobalt	Co	gpt	46	36
Copper	Cu	%	26.1	24.9
Fluorine	F	gpt	133	123
Iron	Fe	%	26.7	29.3
Lead	Pb	%	0.18	0.19
Magnesium	Mg	%	0.17	0.09
Manganese	Mn	%	0.014	0.014
Mercury	Hg	gpt	1	4
Molybdenum	Mo	%	0.006	0.010
Nickel	Ni	gpt	74	94
Phosphorus	P	gpt	118	143
Selenium	Se	gpt	86	30
Silicon	Si	%	2.73	2.33
Sulphur	S	%	32.2	35.1
Silver	Ag	gpt	108	134
Zinc	Zn	%	0.46	0.32

13.7 Conclusions

From the metallurgical testwork results and subsequent analysis it appears that the Whistler deposit is metallurgically very amenable to a conventional flotation route to produce saleable high quality copper concentrates with gold credits, despite the low head grade, and that the levels of recovery and upgrade for both copper and gold are relatively insensitive to feed grade.

Expected grade-recovery parameters are 92% copper recovery to a 25% Cu concentrate and 70% gold recovery.

Although some late testwork on ore hardness revealed the ore to be harder than expected with a Bond Work Index of 19.9kWh/t, some batch flotation work also showed that the primary grind size could be increased from 100µm to 175µm, subject to confirmation with further locked cycle tests, with net savings in comminution power.

14.0 Mineral Resource Estimates

The Mineral Resource estimate for the Whistler deposit is prepared by Susan C. Bird, P.Eng. of MMTS. This estimate is identical to historic estimate previously prepared for Kiska in March, 2011 which is an update from the 2008 resource estimate based on 2010 drilling and updated geology. The resource model is built using MineSight®, an industry standard in geologic modeling and mine planning software. The three dimensional block model has block dimensions of 20mx20mx10m to cover the extent of the mineralized zone, as well as all pit limits tested. A three dimensional solid based on geology of the porphyry deposit is used to constrain the limits of mineralization in the block model. Gold, copper, and silver grades are interpolated into each block based on ordinary kriging. The resource is then classified as Indicated or Inferred based on CIM Definition Standards (CIM, 2014).

14.1 Introduction

The Whistler deposit is a structurally controlled porphyry deposit with Au, Cu and Ag as the primary economic metals. There have been three major intrusive episodes, which define the mineralization at Whistler. The earliest, Main Stage Porphyry (MSP), being that of principal mineralization. A major northwest trending fault (the Divide Fault) is used to segregate the mineralization into two domains prior to grade interpolation. There is some evidence that lateral offsets of as much as 100m may have occurred along this fault.

Statistical analysis (cumulative probability plots, histograms, classic statistical values) of the assay data is used to confirm the domain selection, to decide if capping is necessary, and to determine the extent of non-mineralized zones within the diorite solid. Assay data is then composited into 5m intervals, honoring the domain boundaries, with composite statistics also compiled for comparison with assay and block model data. The composites are used to create variograms for Au, Cu, and Ag, in order to help define rotation and search parameters for the block model interpolation.

Validation of the model is completed by comparison of the block values with de-clustered composite values, with values interpolated by inverse distance, by the use of swath plots, tonnage grade curves, and by visual inspections in section and plan across the property.

Specific gravity values are based on 21 measurements by ALS Chemex to give an average density of 2.72 for ore, and 2.60 for waste.

14.2 Assay Data

Drillhole data includes all 48 holes drilled at the Whistler deposit. A 3D solid of the diorite intrusion has been created based on the logged geology. The geology has also been used to define the Divide Fault as a major fault and domain boundary within the deposit.

Figure 14-1 is a plan view of the drilling, showing the mineralized rock types as Indicated by the assay data, and the domain solids.

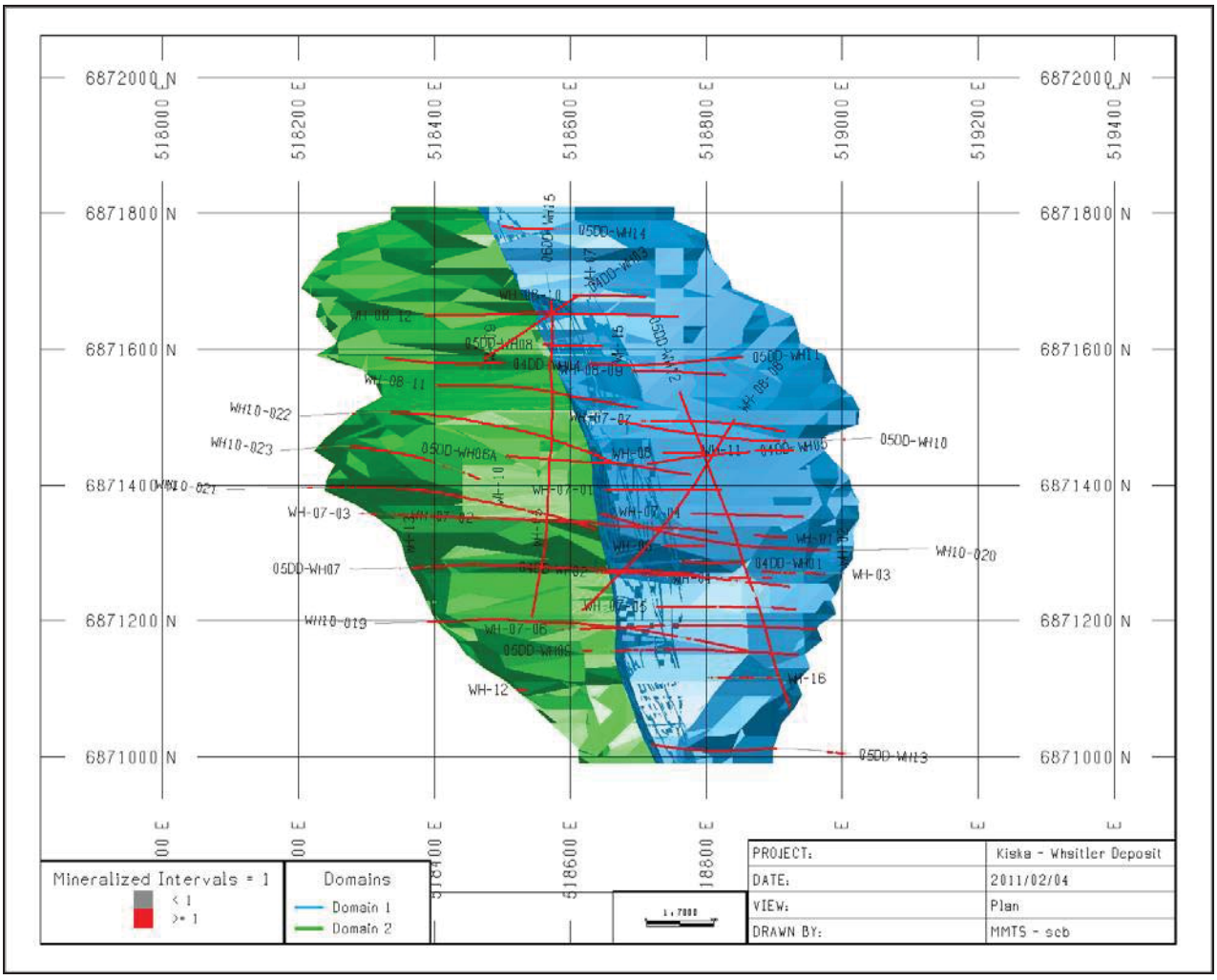


Figure 14-1 Plan view of the Mineralized Assay Intervals and Domains of the Diorite Solid

A three dimensional view looking north of the domains and the Divide Fault as modeled is illustrated in Figure 14-2, with the surface contours also plotted.

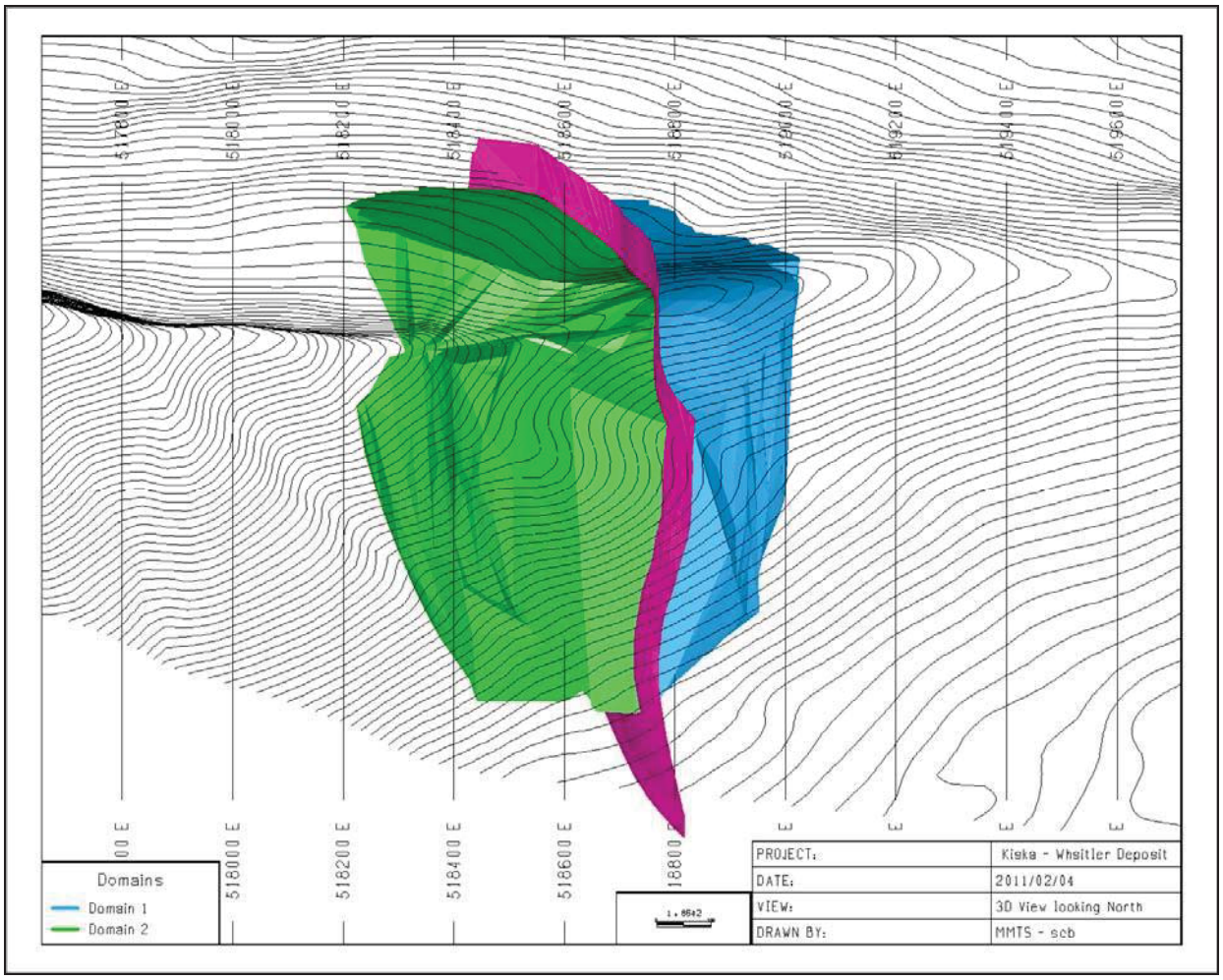


Figure 14-2 Divide Fault and Domains Modeled from Drillhole Geology

Within the mineralized diorite body, non-mineralized intervals indicated by assay data have been determined to be of insignificant length and occurrence. This is evident from Figure 14-1 which indicates the scarcity and discontinuity of any non-mineralized intervals. Statistics of the assays for the mineralized and non-mineralized zones within the diorite (summarized in Table 14-1) also indicate the relative lack of non-mineralized intervals with only 532 in total, representing only 5% of the data.

Table 14-1 Summary Statistics of Assay Data, Mineralized and Non-Mineralized Intervals

	Au		Cu		Ag		Assay Interval	
Parameter	Mineralized	Un-Mineralized	Mineralized	Un-Mineralized	Mineralized	Un-Mineralized	Mineralized	Un-Mineralized
Num. Samples	9952	513	9951	513	9937	513	9982	532
Missing Samples	30	19	31	19	45	19	0	0
Mean	0.3401	0.133	0.1286	0.0607	1.7653	1.3471	1.6001	1.6844
Min	0.001	0.001	0	0	0.001	0.001	0.01	0.01
Max	10.667	5.18	3.09	0.607	186	39	6.1	9.9
SD	0.5816	0.3833	0.1475	0.0772	5.1967	2.3218	0.8246	1.1771
Variance	0.3382	0.1469	0.0217	0.006	27.0053	5.3906	0.68	1.3855
CV	1.7098	2.8817	1.1463	1.2716	2.9438	1.7235	0.5154	0.6988
Weighted mean	0.3128	0.106	0.122	0.0551	1.6177	1.2	1.6001	1.6844
Weighted SD	0.549	0.2872	0.1367	0.0656	4.2387	1.8863	0.8246	1.1771
Weighted variance	0.3014	0.0825	0.0187	0.0043	17.9669	3.5582	0.68	1.3855
Weighted CV	1.7552	2.7099	1.1206	1.1915	2.6202	1.5719	0.5154	0.6988

Cumulative probability plots (CPP) are used to define the two domains as separate populations for block model interpolation. Figure 14-3 and Figure 14-4 show the CPP plots for Au and Cu respectively, by domain. The assay statistics of each domain are summarized in the Table 14-2. These indicate that the domains have separate populations, with Domain 1 (east of the Divide fault) having higher mean grades of both Au and Cu. Because these plots indicate a near linear trend even at higher grades, no capping of the assays data prior to compositing is deemed necessary.

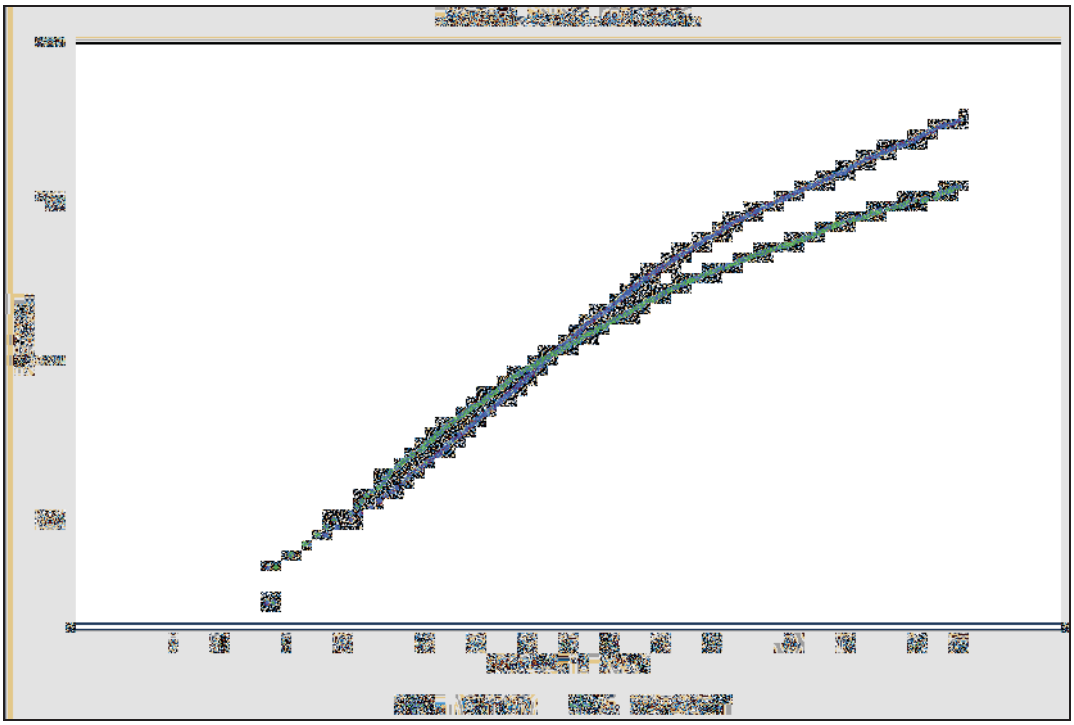


Figure 14-3 CPP of Au Assay Data by Domain

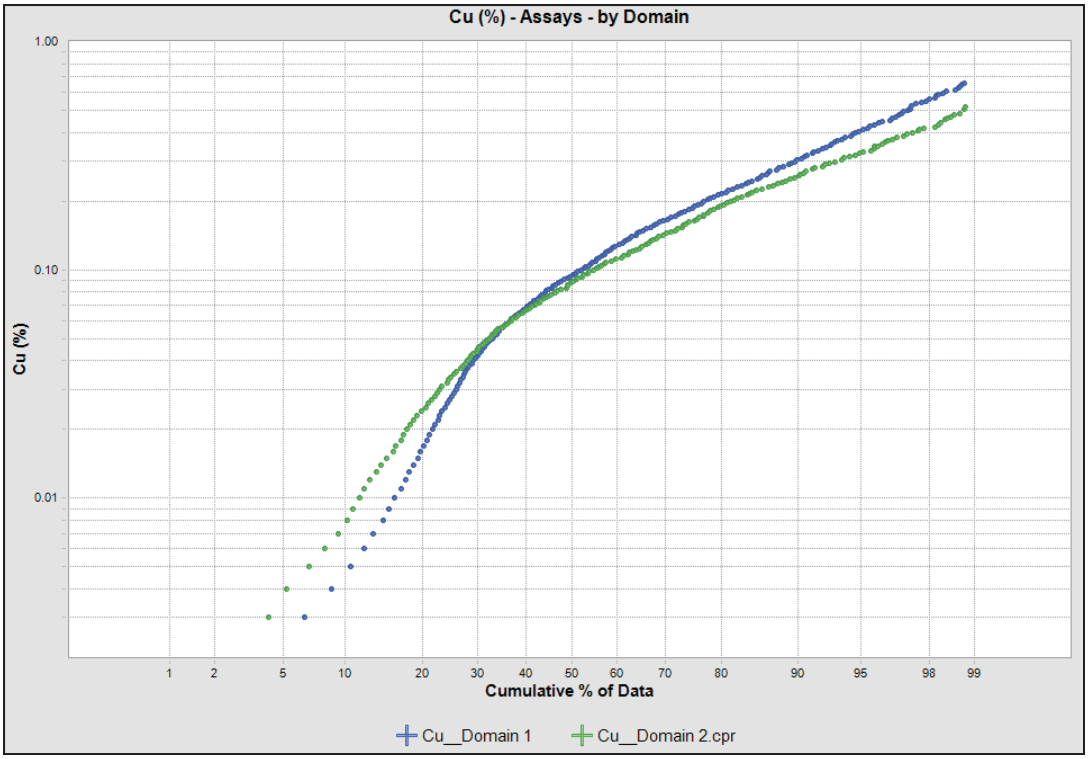


Figure 14-4 CPP of Cu Assay Data by Domain

Table 14-2 Summary Statistics of Assay Data by Domain

	Au		Cu		Ag	
Parameter	**Domain 1**	**Domain 2**	**Domain 1**	**Domain 2**	**Domain 1**	**Domain 2**
Num. Samples	6424	4056	6424	4055	6414	4051
Num. Missing Samples	20	33	20	34	30	38
Mean	0.3988	0.2214	0.1323	0.1145	1.7996	1.6581
Min	0.001	0.001	0	0	0.001	0.001
Max	10.667	4.53	3.09	1.305	151.8	186
SD	0.6893	0.288	0.1611	0.1159	4.2337	6.2116
Variance	0.4751	0.083	0.0259	0.0134	17.924	38.5837
CV	1.7283	1.301	1.2179	1.0117	2.3526	3.7462
Weighted mean	0.3751	0.2023	0.1268	0.1075	1.684	1.477
Weighted SD	0.6641	0.2646	0.1511	0.1075	3.719	4.691
Weighted variance	0.441	0.07	0.0228	0.0115	13.8312	22.0059
Weighted CV	1.7702	1.3077	1.1914	0.9999	2.2084	3.176

14.3 Compositing

Compositing of Au, Ag and Cu grades have been done as 5m fixed length composites. Small intervals less than 2m are merged with the up hole composite if the composite length is less than 5m. Domain boundaries are honored during compositing. Table 14-3 summarizes the statistics of the composite data.

Table 14-3 Summary Statistics of Composite Data by Domain

	Au		Cu		Ag	
Parameter	**Domain 1**	**Domain 2**	**Domain 1**	**Domain 2**	**Domain 1**	**Domain 2**
Num. Samples	1958	1423	1958	1423	1957	1422
Num. Missing Samples	1	10	1	10	2	11
Mean	0.3723	0.2014	0.1259	0.107	1.6612	1.466
Min	0.001	0.001	0	0	0.001	0.001
Max	8.185	2.063	1.475	1.052	62.059	70.476
SD	0.5908	0.2326	0.1311	0.0952	2.4373	3.0201
Variance	0.3491	0.0541	0.0172	0.0091	5.9404	9.1209
CV	1.5871	1.1548	1.0412	0.8892	1.4672	2.0601
Weighted mean	0.3737	0.2017	0.1262	0.1072	1.6603	1.467
Weighted SD	0.5916	0.2324	0.1312	0.0953	2.4381	3.0334
Weighted variance	0.35	0.054	0.0172	0.0091	5.9442	9.2016
Weighted CV	1.5833	1.1523	1.0394	0.8883	1.4685	2.0678

Correlation of Au with Cu grades is investigated with scatter plots of the composite data, as shown in Figure 14-5 and Figure 14-6. These scatter plots indicate some broad correlation of Au and Cu grades, more defined for Domain 1. Also of note, is the reduced slope for Domain 2, indicating lower Au grades. There are also significant spatial differences in the Cu-Au ratio which will be discussed in the block model results section.

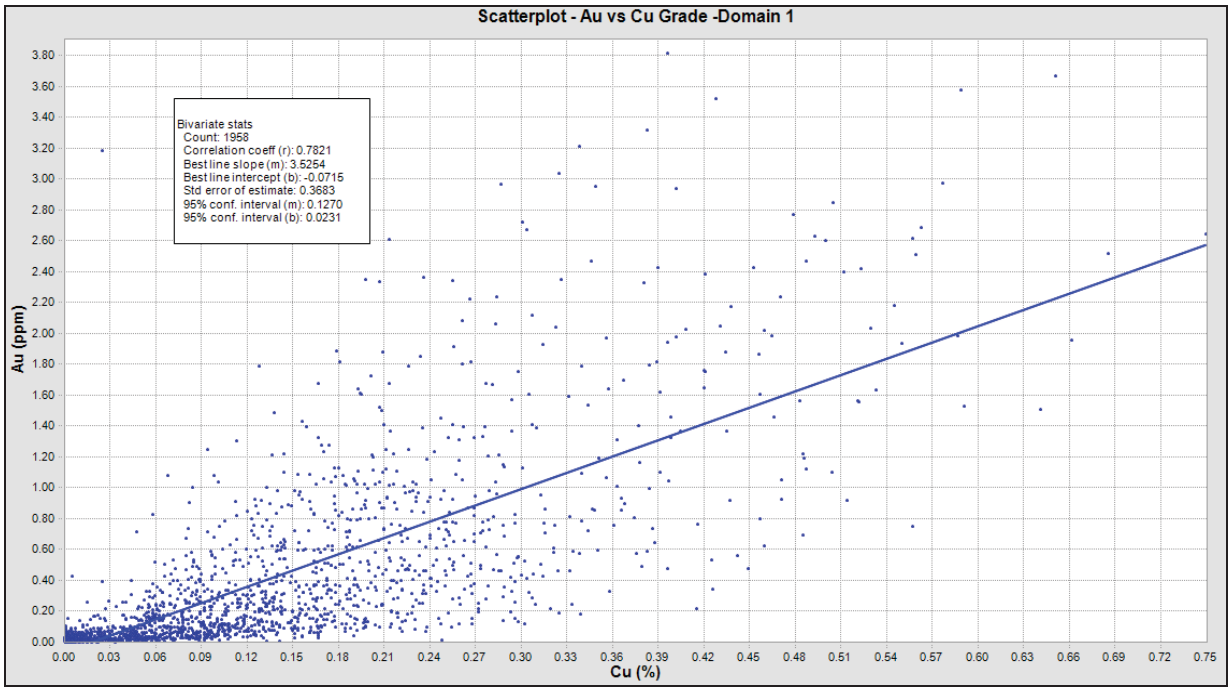


Figure 14-5 Scatter-plot of Au vs. Cu Grades – Domain 1

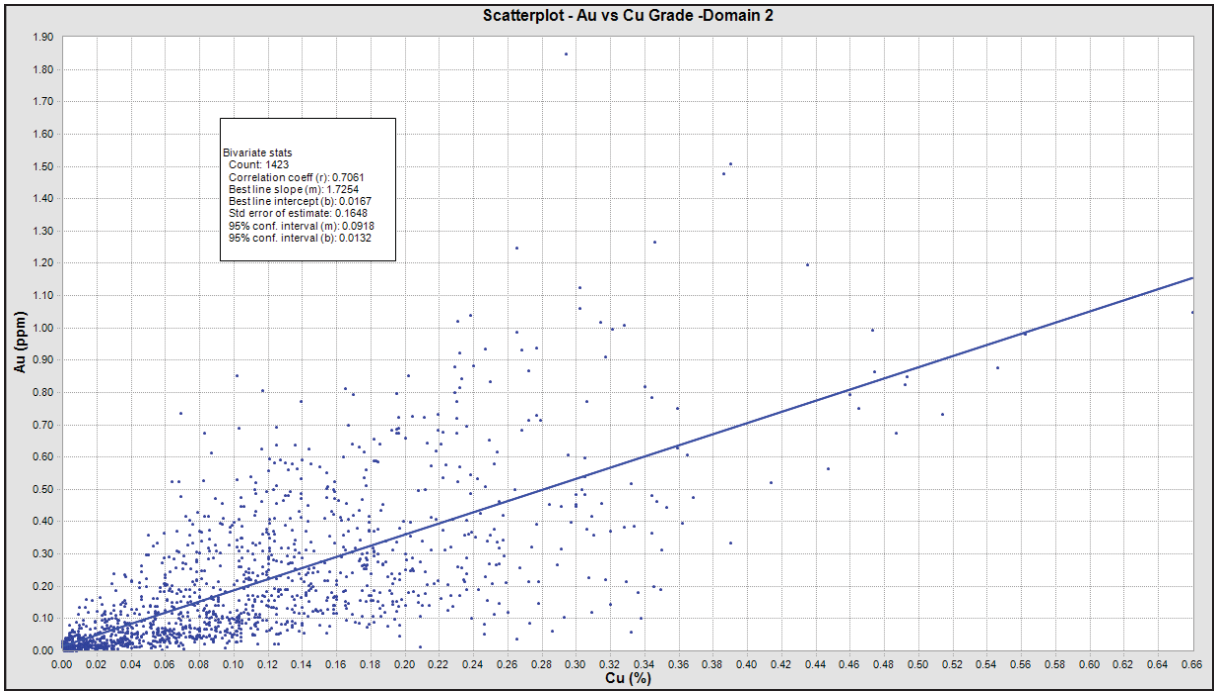


Figure 14-6 Scatter-plot of Au vs. Cu Grades – Domain 2

14.4 Variography

Variograms are completed for each domain at 30 degree azimuth intervals and 10 degree plunges over the entire directional sphere. The composite data set for Domain 2 is not large enough to produce reliable variograms. Therefore, the parameters found for Domain 1 are used throughout the deposit. A summary of the spherical variogram parameters is given in Table 14-4. The Au and Cu grades are defined with a single spherical variogram model, with the Ag defined by two nested spherical structures.

Table 14-4 Variogram Parameters

Parameter	Au	Cu	Ag	
			Structure 1	Structure 2
Nugget	0	0.0046	0	0
Sill	0.3801	0.0144	2.9821	6.0998
Range – Major	140	120	40	320
Range – Minor	120	120	155	155
Range – Vertical	80	110	50	190
Azimuth – Major Axis	180	180	30	30
Plunge – Major Axis	-70	-80	-70	-70
Dip - East	-50	-40	-10	-10

An example of the Variogram Model for Cu in Domain 1 in the major axis direction is illustrated in the Figure below.

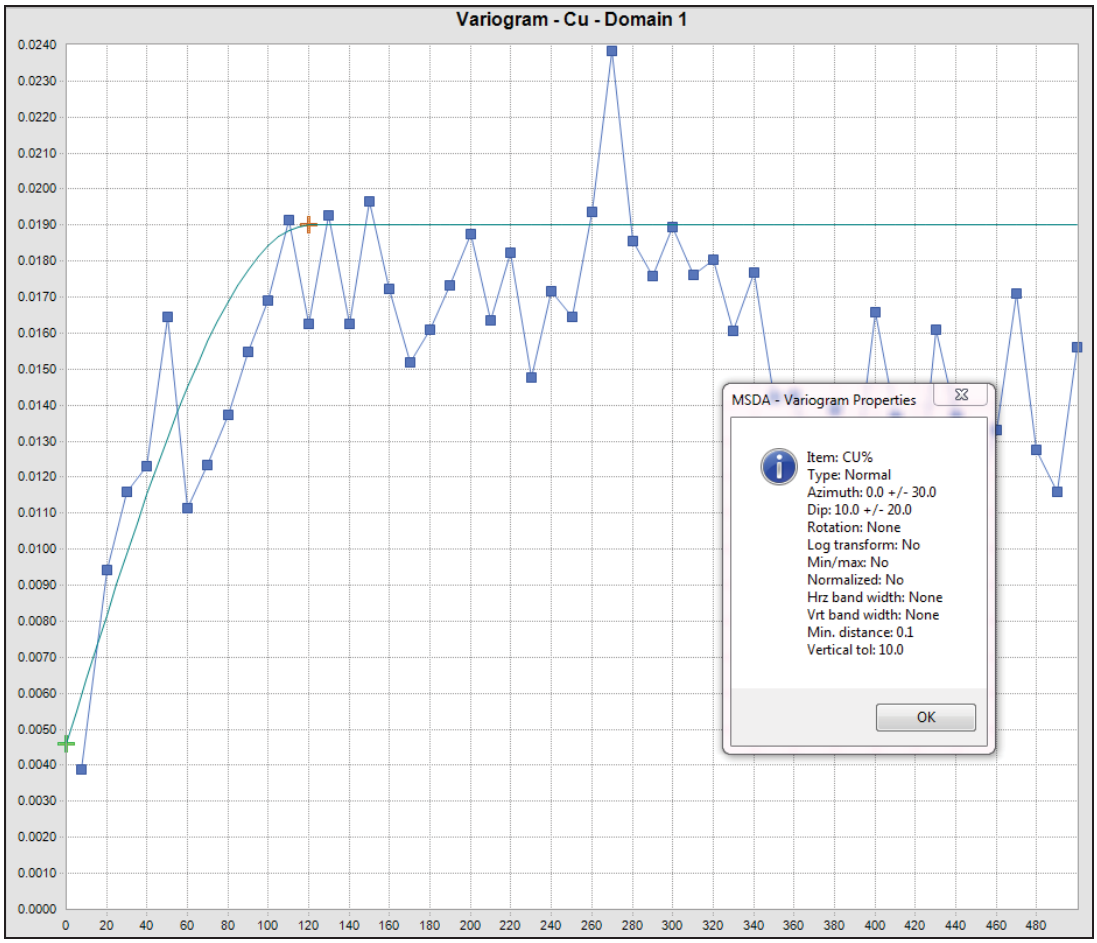


Figure 14-7 Variogram Model for Cu in Domain 1 – Major Axis

14.5 Block Model Interpolation and Resource Classification

The block model limits and block size are as given in Table 14-5.

Table 14-5 Block Model Limits

Direction	Minimum	Maximum	Block Dimension	# of Blocks
Easting	517,200	519,860	20	133
Northing	6,870,000	6,873,000	20	150
Elevation	-50	1,280	10	133

Interpolation of Au, Cu and Ag values is done by ordinary kriging in two passes based on the variogram parameters. Interpolation was restricted by the Diorite Solid, with composites and block codes matching within each domain. Search parameters are summarized in the table below.

Table 14-6 Search Parameters

Search Parameter	Pass 1	Pass 2
Resource Classification	Indicated	Inferred
Search distance	½ Range	Range
Minimum # comps	4	3
Maximum # comps	9	9
Maximum # Comps/Hole	3	2
Max # Comps / Split Quadrant	6	7

Classification is based on the variogram parameters, and restrictions on the number of composites and drillholes used in each pass of the interpolation, as Indicated in Table 14-6. The definition of Indicated and Inferred used to classify the resource is in accordance with that of the CIM Definition Standards (CIM, 2014).

14.6 Block Model Validation

14.6.1 Comparison of Mean Grades

Interpolation is also done by Inverse Distance Squared ("ID2") weighting using the same search parameters to compare to the kriged values. Table 14-7 gives a summary of the mean grades for de-clustered composites (NN interpolation), kriged and IDW, indicating no global bias.

Table 14-7 Comparison of De-clustered Composite, Kriged, and ID2 Mean Grade Values

Interpolation	Au	Cu	Ag
Nearest Neighbour	0.3697	0.1359	1.7537
IDW	0.3754	0.1374	1.7212
OK	0.3673	0.1359	1.6796
Difference - IDW	1.5%	1.1%	-1.9%
Difference - OK	-2.2%	-1.1%	-2.5%

14.6.2 Volume-Variance Correction

Cut-off grade plots (tonnage-grade curves) are constructed for each metal to check the validity of the change of support in the grade estimations. The Nearest Neighbour grade estimates are first corrected by the affine method using the block variance. The corrected NN values for Au and Cu are plotted and compared to both the kriged values and the inverse distance squared values (Figure 14-8 and Figure 14-9). The distributions shows good correlation, and thus the change of support are valid.

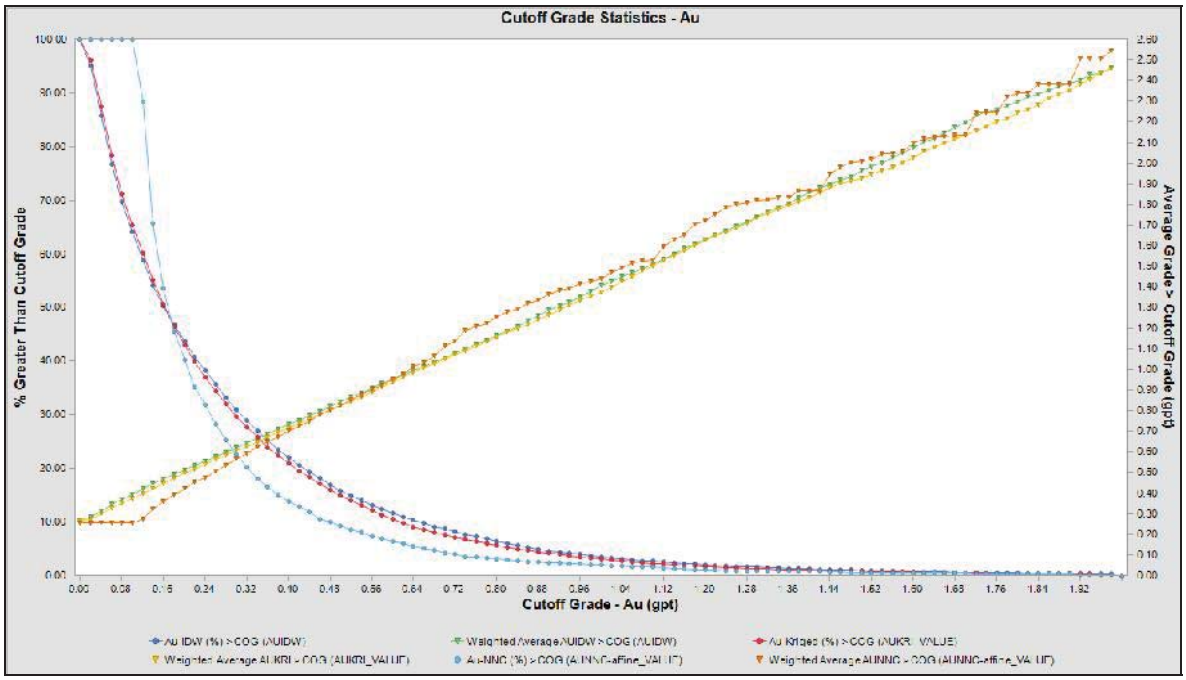


Figure 14-8 Tonnage-Grade Curves for Au – Comparison of Interpolation Methods

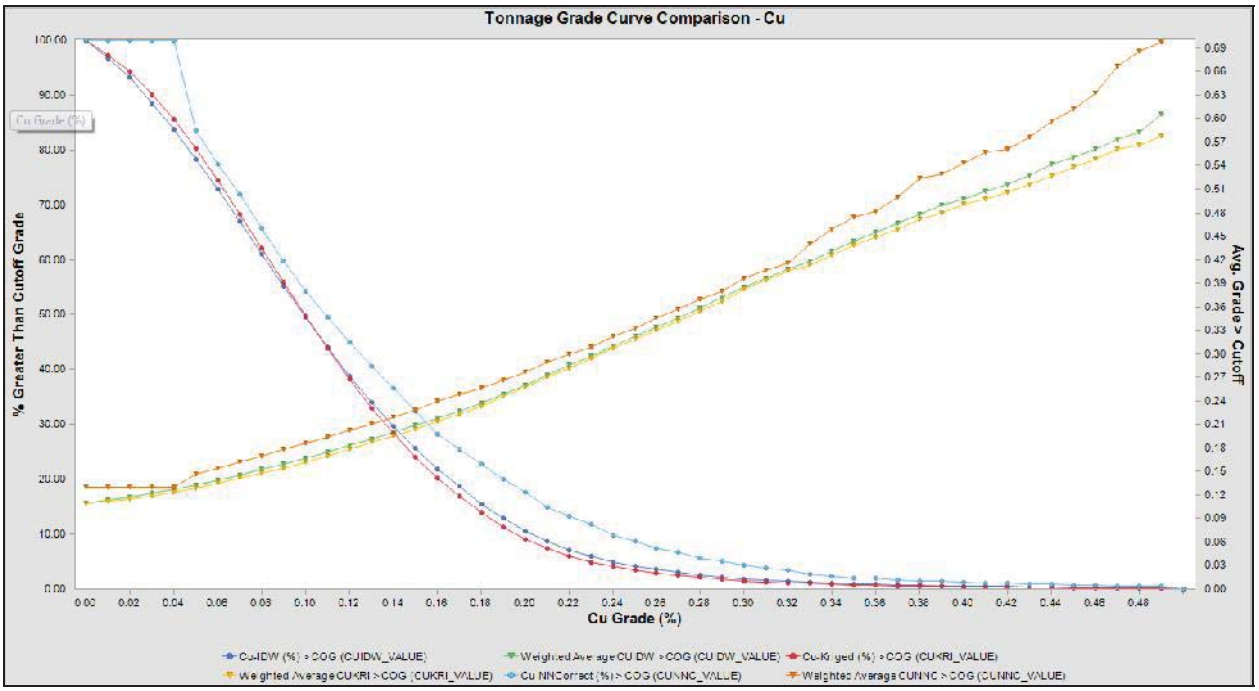


Figure 14-9 Tonnage-Grade Curves for Cu – Comparison of Interpolation Methods

14.6.3 Swath Plots

Swath plots through the diorite body are created in N-S, E-W and vertical directions for the three main metals to compare the kriged grades to those interpolated by the Nearest Neighbour method. These are illustrated in Figure 14-10 through Figure 14-12. The swath plots indicate no global bias in the kriged values, and good correlation in the main body of the data.

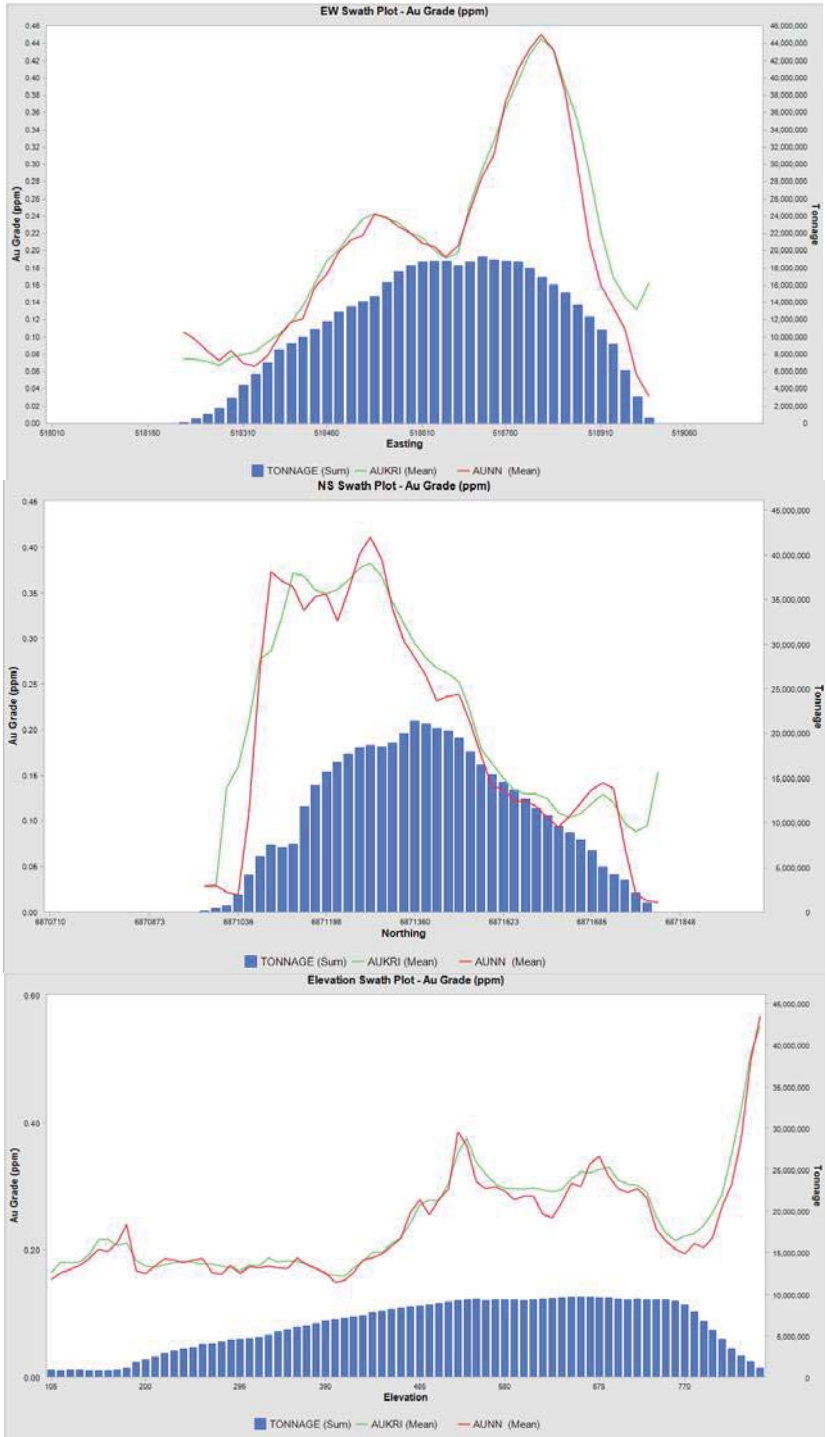


Figure 14-10 Swath Plots of Au Grade

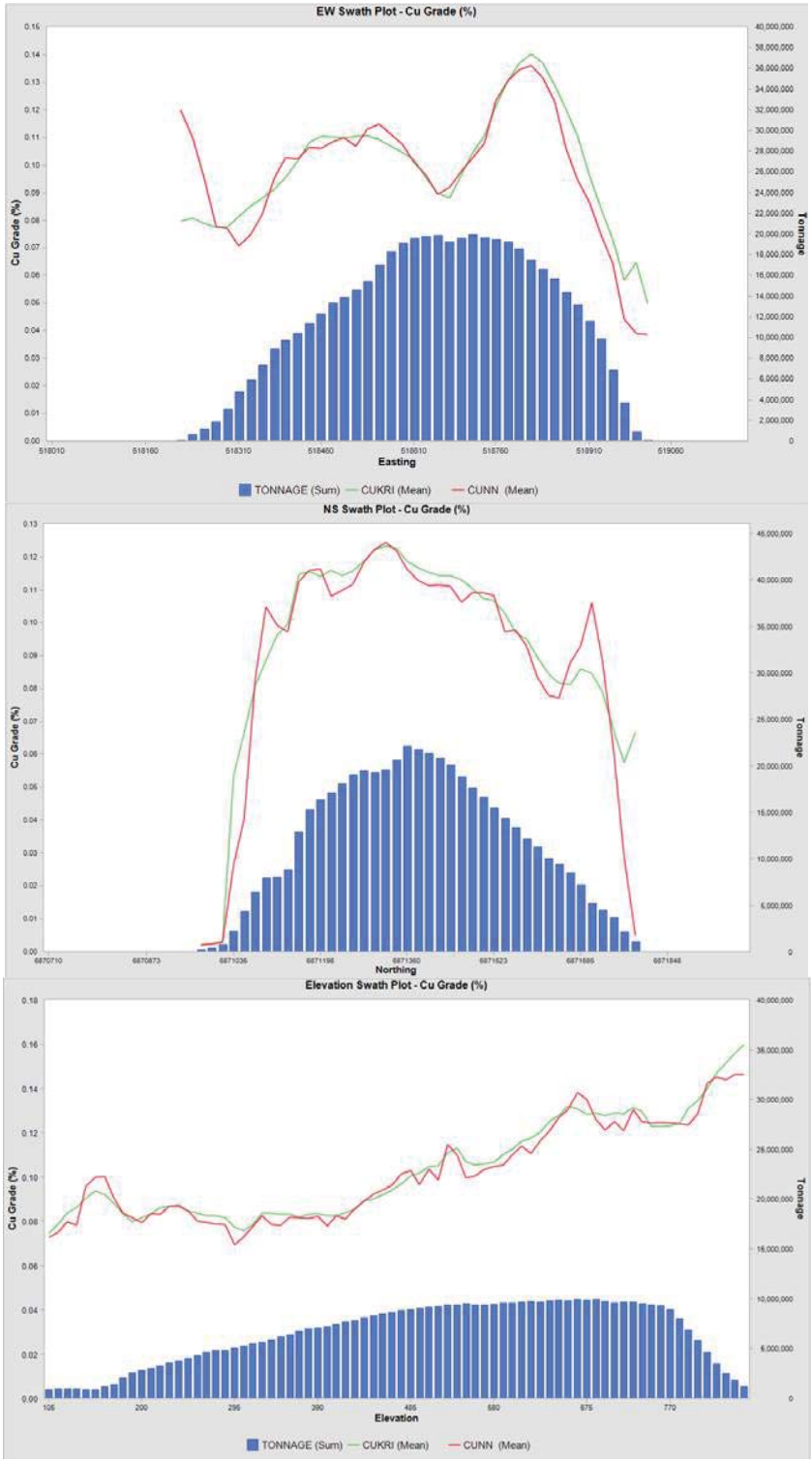


Figure 14-11 Swath Plots of Cu Grade

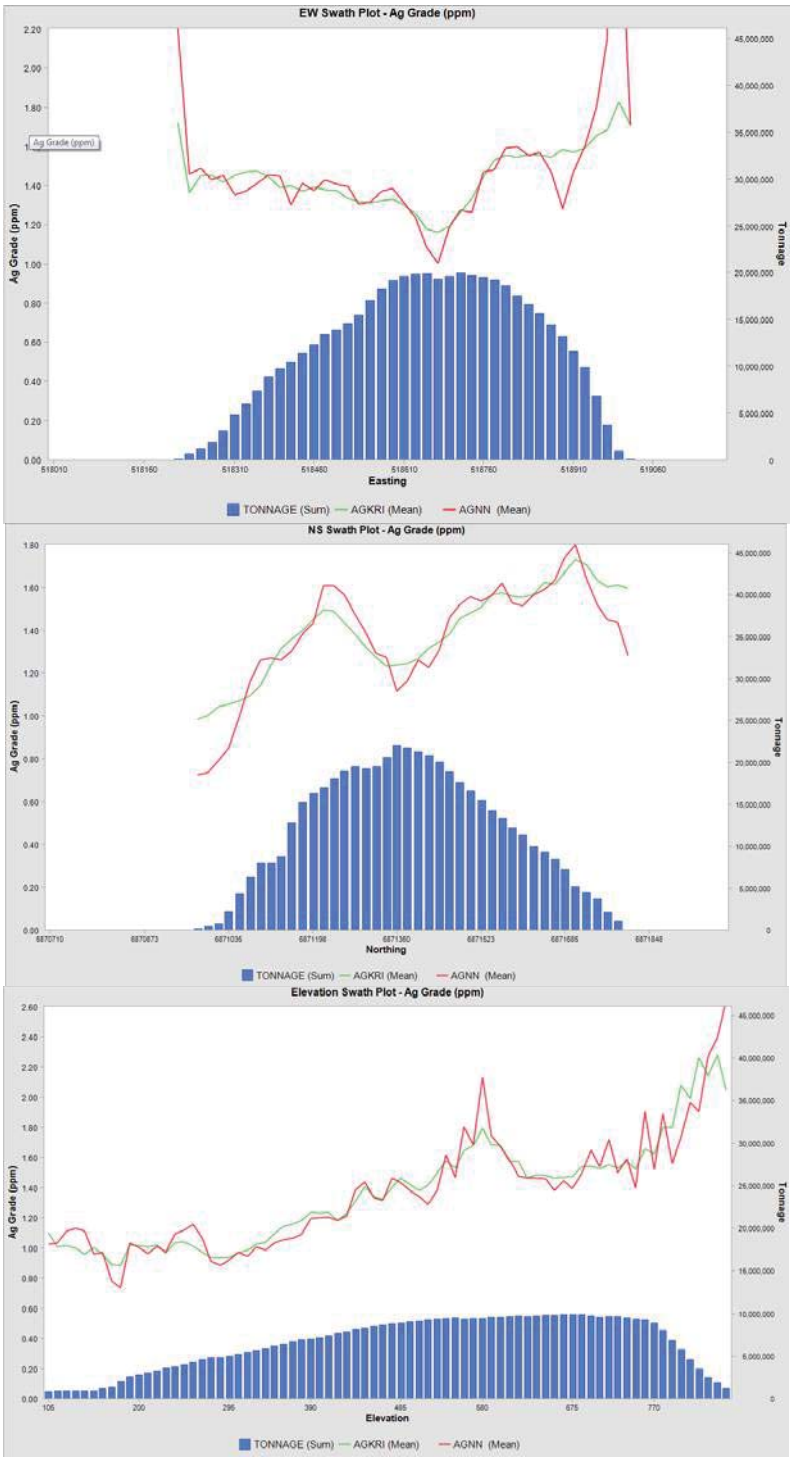


Figure 14-12 Swath Plots of Ag Grade

14.6.4 Visual Validation

A series of E-W, N-S sections (every 20m) and plans (every 10m) have been used to inspect the ordinary kriging block model grades with the original assay data. Figure 14-13 and Figure 14-14 give examples of this comparison for the E-W section at 6871290N, for Au and Cu grades respectively. Figure 14-15 and Figure 14-16 illustrate the grade comparisons at the 690m elevation. Plots throughout the model confirmed that the block model grades corresponded very well with the assayed grades.

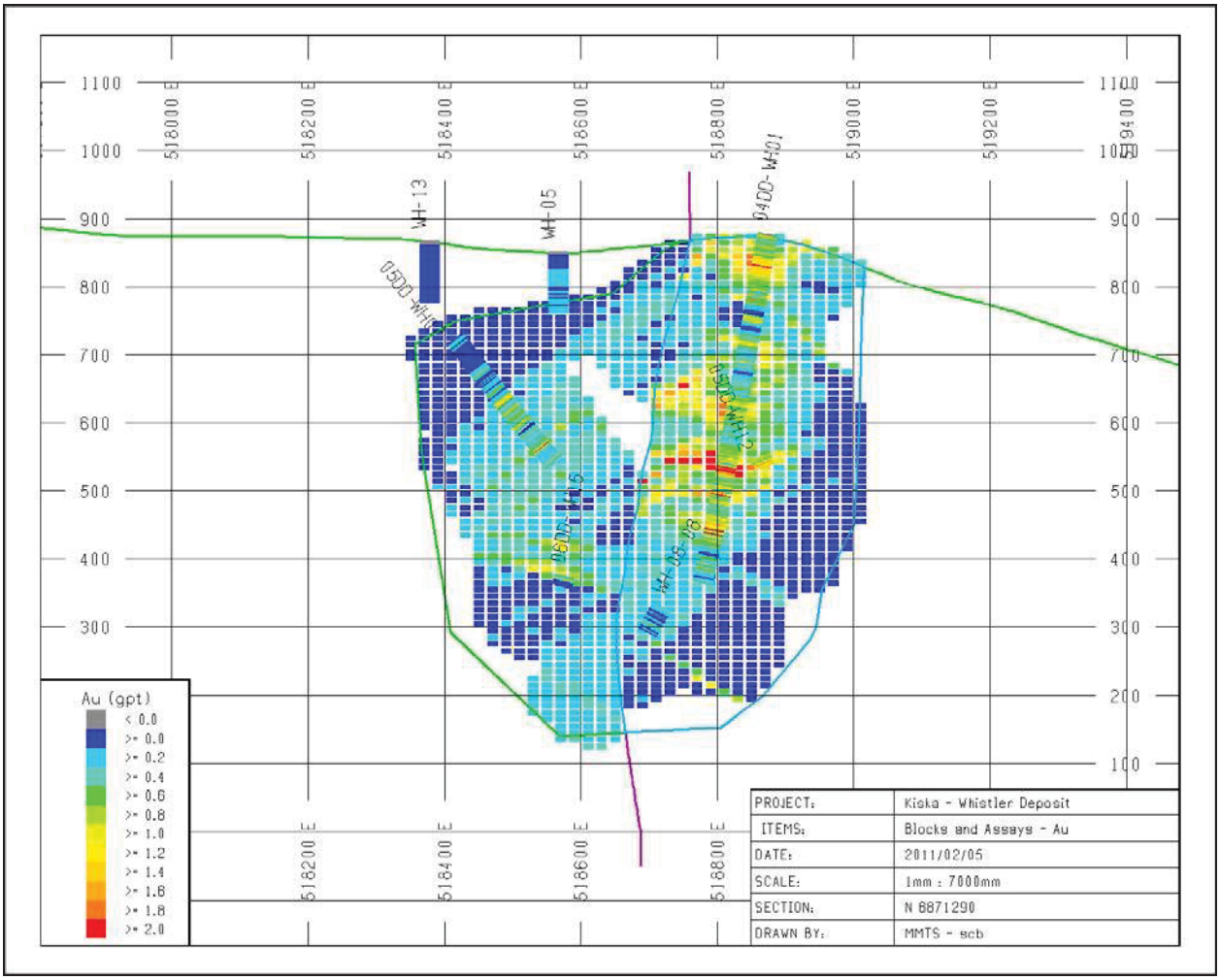


Figure 14-13 E-W Section Comparing Au Grades for Block Model and Assay Data

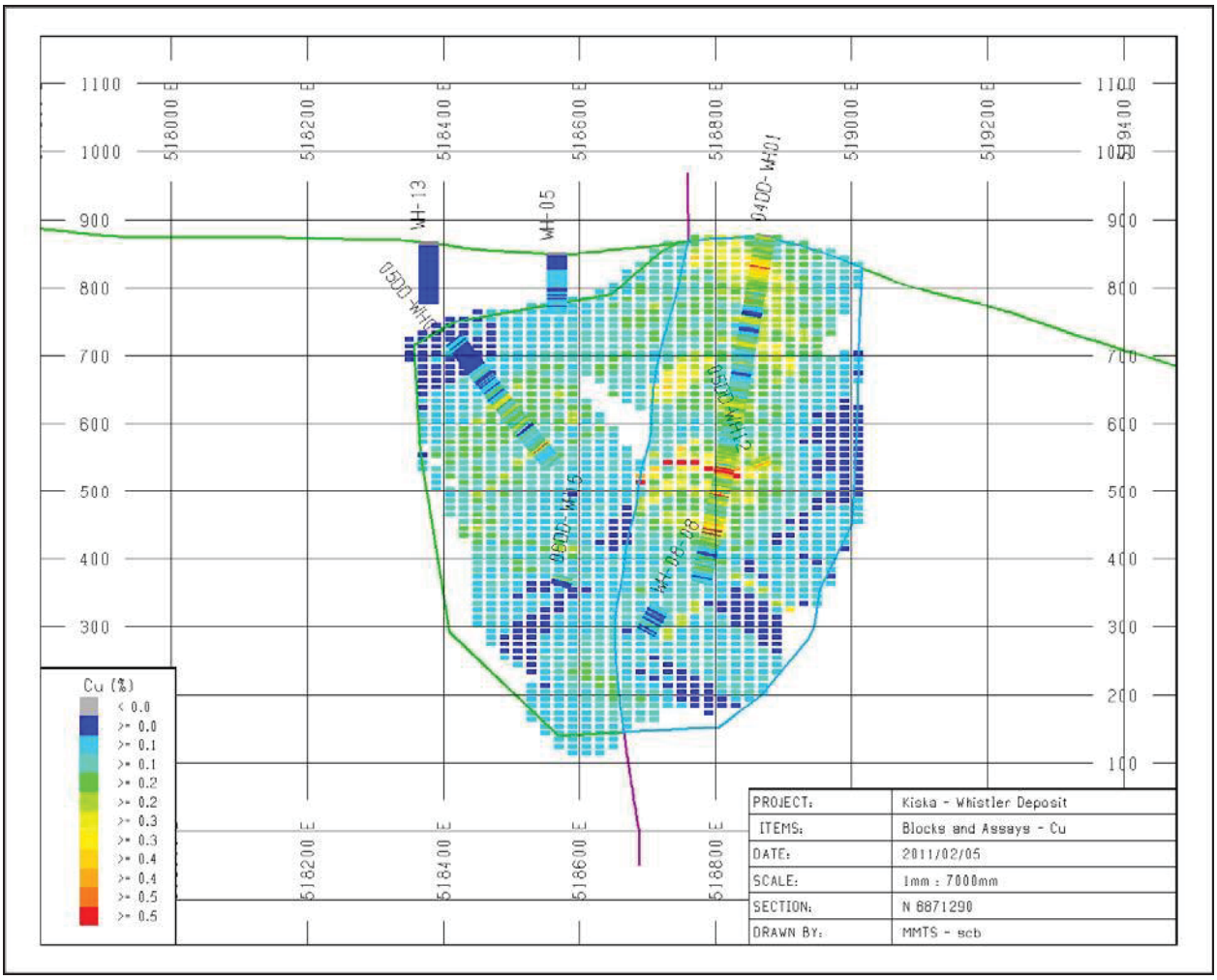


Figure 14-14 E-W Section Comparing Cu Grades for Block Model and Assay Data

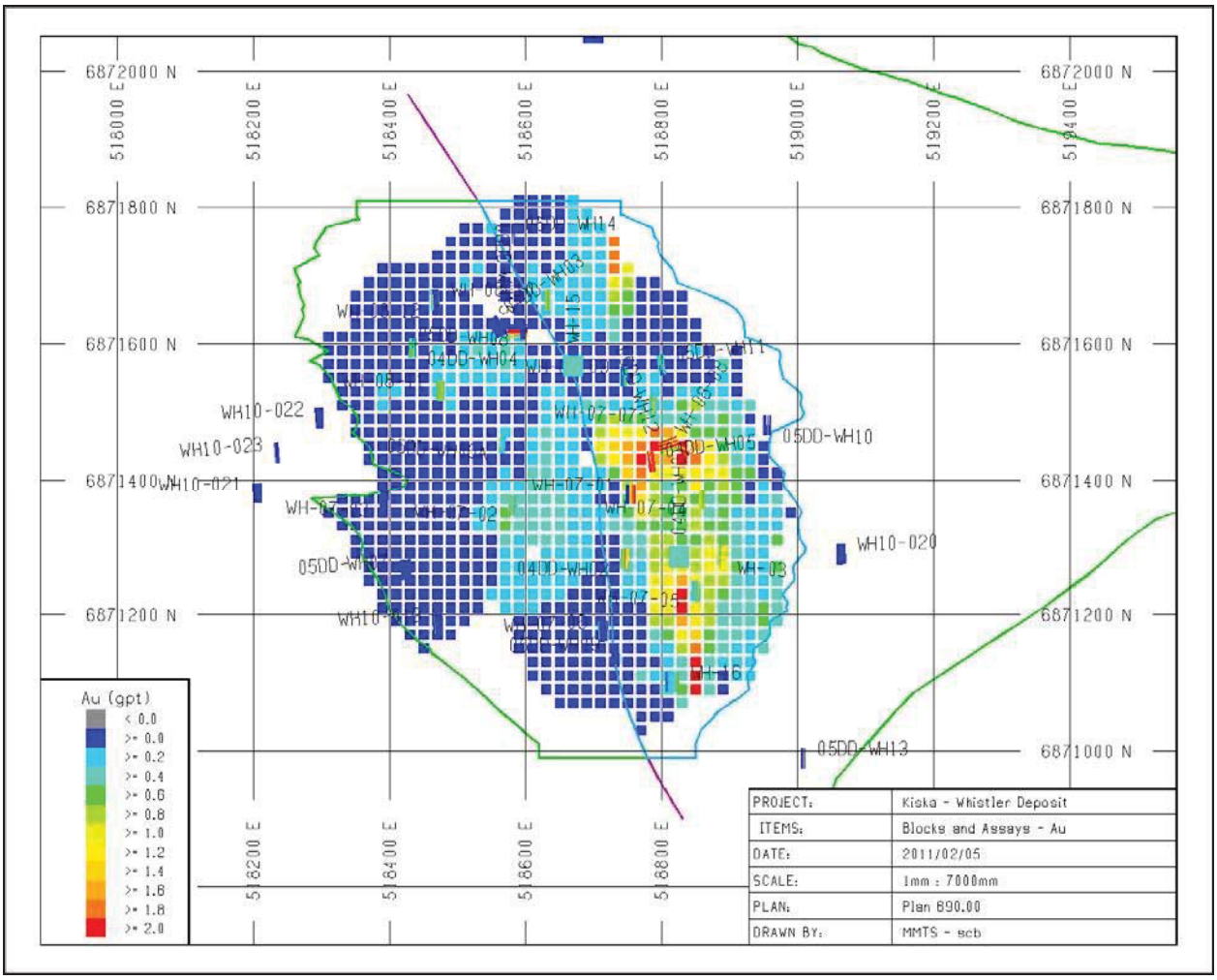


Figure 14-15 Plan Comparing Au Grades for Block Model and Assay Data

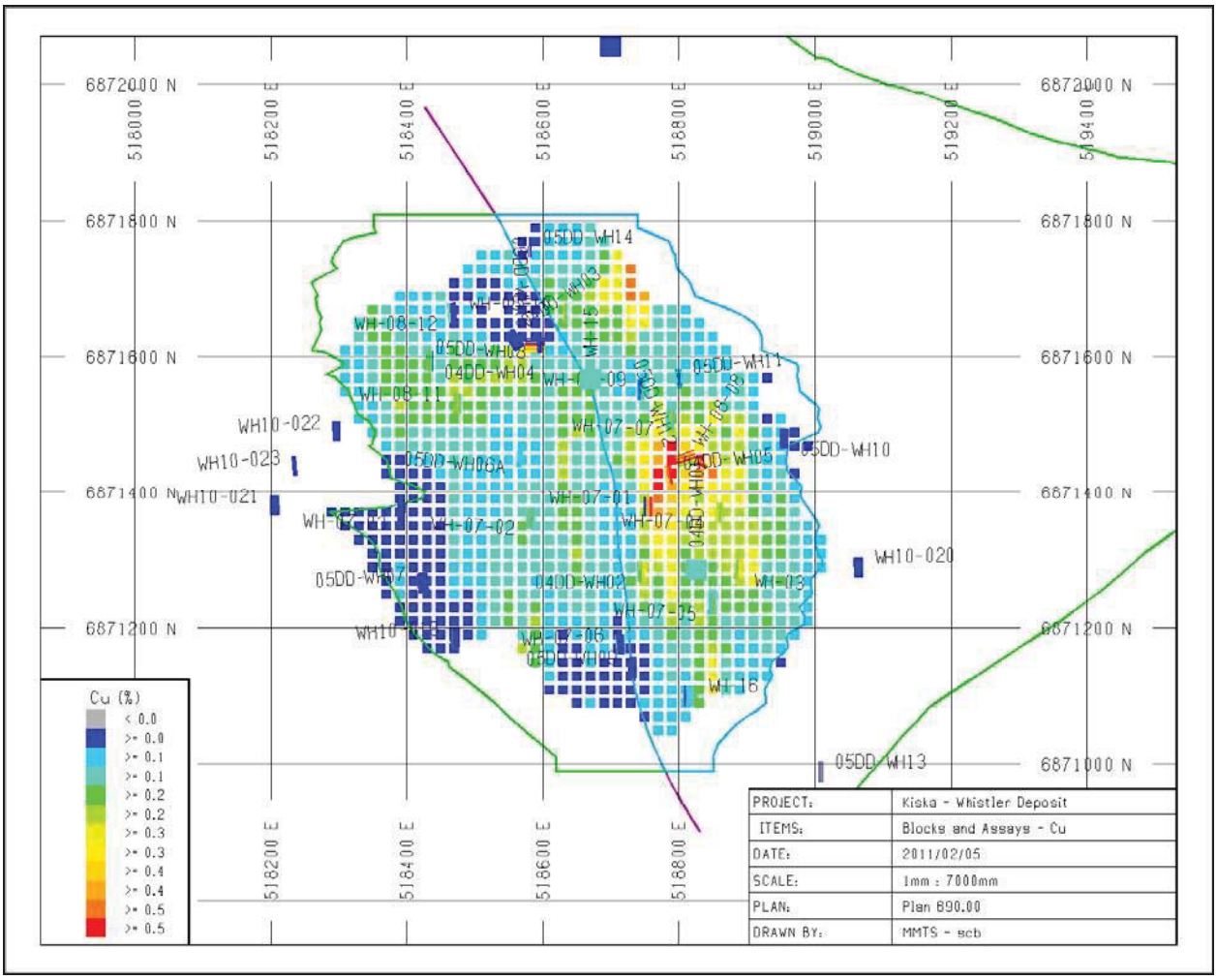


Figure 14-16 Plan Comparing Cu Grades for Block Model and Assay Data

Visual inspection of the Cu/Au ratio indicated spatial variation. Although the scatter plots of these two grades showed some correlation (Figure 14-15 and Figure 14-16), section and plan plots reveal that the ratio changes throughout the deposit. Figure 14-17 and Figure 14-18 illustrate this spatial variability for a section and plan view. The ratio generally increases at the periphery of the deposit, and to the north. This is due primarily to higher Au grades in the center and the southern portion of the deposit.

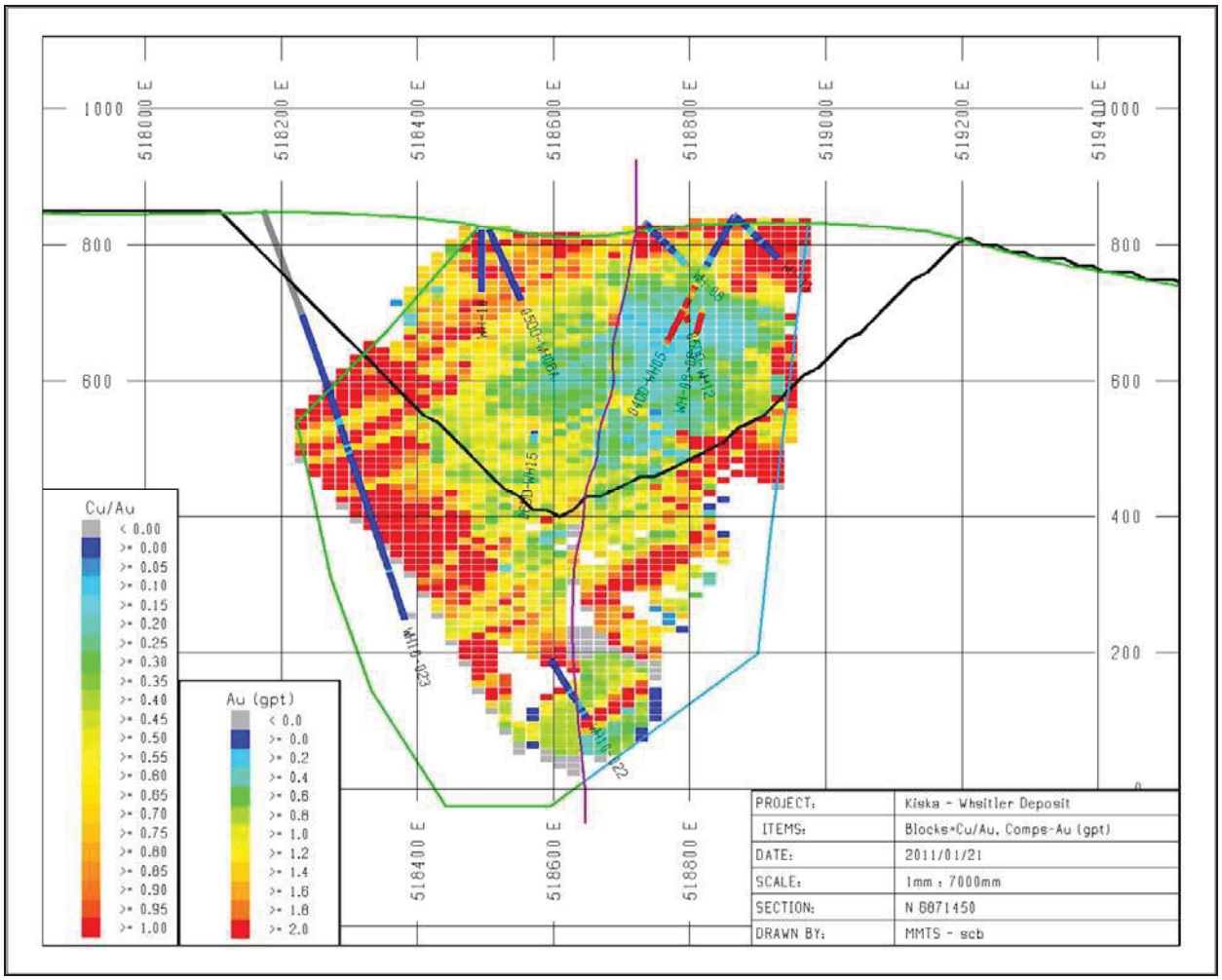


Figure 14-17 E-W Section of the Cu/Au Ratio Indicating Spatial Variability

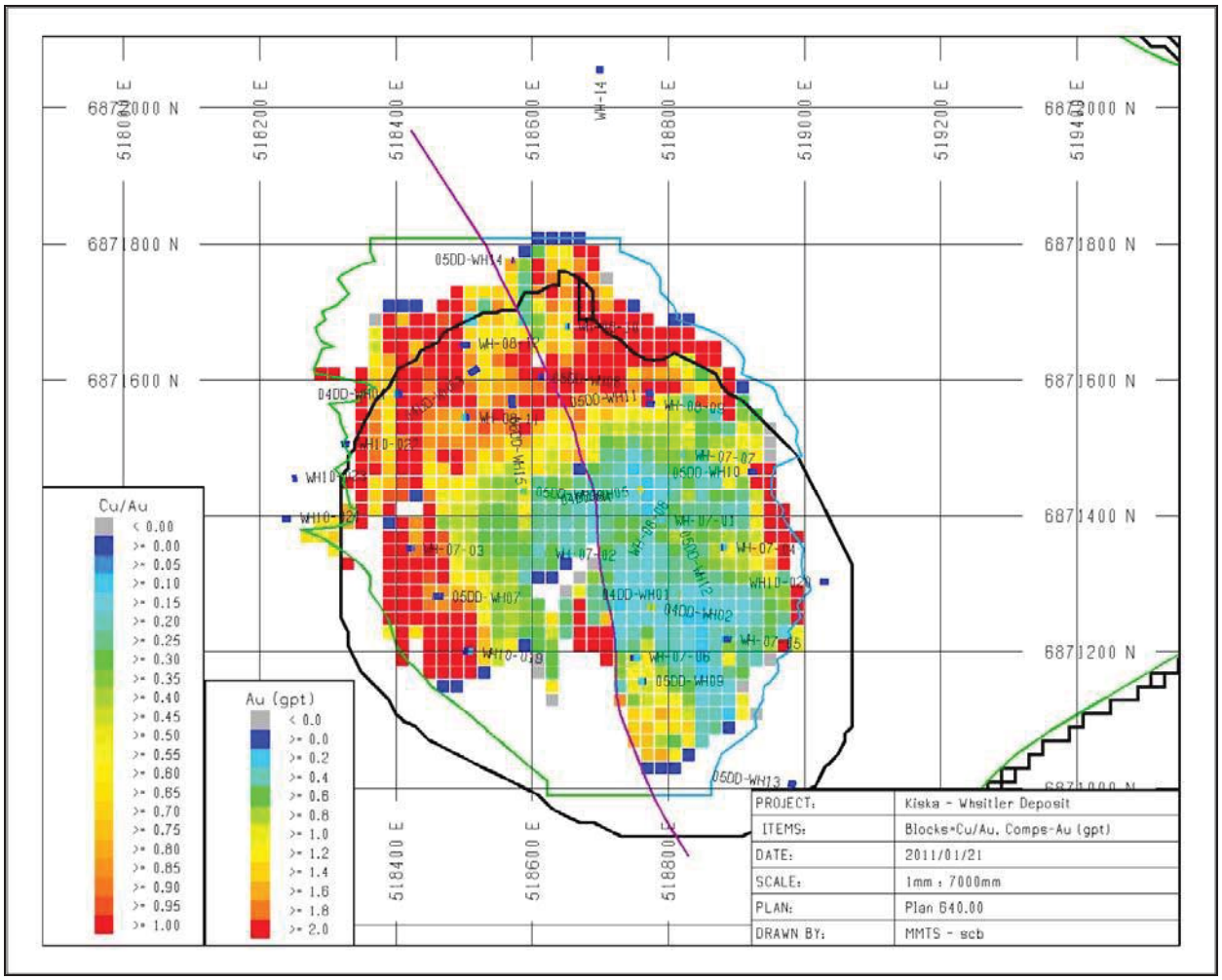


Figure 14-18 Plan of the Cu/Au Ratio Indicating Spatial Variability

14.7 Pit Delineated Resource

As defined by NI 43-101, the confining pit defines a boundary for continuous mineralization with suitable grades and with a reasonable expectation that an engineered plan will produce an economic plan. The required assumptions to produce a Lerchs-Grossman (LG) pit shell using MineSight®, are summarized in the following section.

Process recoveries are based on preliminary metallurgical studies. The recoveries used to determine the Net Smelter return are given in Table 14-8, with economic inputs summarized in Table 14-9.

Table 14-8 Process Recoveries

Metal	Recovery (%)
Au	75
Cu	85
Ag	75

Table 14-9 Economic Inputs

Parameter	November 2010 Values
Au Price (USD)	990 $/oz
Cu Price (USD)	2.91 $/lb
Ag Price (USD)	15.40 $/oz
Mining Costs	1.50 $/tonne ROM
Milling + G&A	7.50 $/tonne ore
G & A	0.50 $/tonne ore
Mining Recovery	100%
Dilution	0%
Exchange Rate	0.92 $US/$CDN
NSP – Au (CDN)	32.072 $/g
NSP – Cu (CDN)	2.824 $/lb
NSP – Ag (CDN)	0.446 $/g

**Indicated and Inferred resources are used for pit optimization.*
**Pit slope angle is considered constant at 45 degrees for all cases.*

The pit delineated resource is given in Table 14-10, for a range of NSR cut-offs with the base case cut-off of $7.50/tonne highlighted. Process recoveries, as well as mining, processing and off site costs have been applied in order to determine that the pit resource has a reasonable prospect of economic extraction. The $7.50/tonne cut-off (an Au Equivalent grade of approximately 0.3 gpt at the base case prices) yields an Indicated resource of 79.2 Mtonnes at 0.51 gpt gold, 0.17% copper and 1.97 gpt silver (2.25 Moz Au Eqv.) and an Inferred resource of 145.8 Mtonnes at 0.40 gpt gold, 0.15% copper and 1.75 gpt silver (3.35 Moz Au Eqv). The mining, processing and off site costs used here are estimates and may not represent actual costs.

There are no known significant environmental, permitting, legal, title, taxation, socio-economic, marketing, political, or other factors that could materially affect the resource estimate.

Table 14-10 Summary of Pit Delineated Resource[1], Whistler Deposit

Class	NSR[2] Cut-off ($/tonne)	Tonnes (Mt)	In situ Grades				Total Modelled Metal		
			NSR ($/tonne)	Au (gpt)	Cu (%)	Ag (gpt)	Gold (Moz)	Silver (Moz)	Copper (Mlbs)
Indicated	7.50	79.2	21.95	0.51	0.17	1.97	1.28	5.03	302
	10.00	69.8	23.77	0.56	0.18	2.06	1.24	4.61	282
	12.50	60.7	25.64	0.61	0.19	2.13	1.19	4.15	259
	15.00	51.7	27.72	0.67	0.20	2.19	1.12	3.63	232
	17.50	43.3	29.95	0.74	0.21	2.26	1.03	3.14	203
	20.00	35.6	32.36	0.82	0.22	2.35	0.94	2.68	176
	22.50	29.6	34.65	0.89	0.23	2.40	0.85	2.28	152
	25.00	24.0	37.22	0.98	0.24	2.49	0.75	1.91	129
Inferred	7.50	145.8	17.78	0.40	0.15	1.75	1.85	8.21	467
	10.00	123.1	19.56	0.45	0.16	1.83	1.76	7.23	423
	12.50	100.1	21.48	0.50	0.17	1.91	1.61	6.13	365
	15.00	79.0	23.55	0.57	0.18	1.98	1.43	5.00	306
	17.50	59.0	26.03	0.64	0.19	2.10	1.21	3.98	243
	20.00	43.1	28.74	0.73	0.20	2.25	1.01	3.11	188
	22.50	31.6	31.50	0.82	0.21	2.35	0.83	2.38	146
	25.00	23.0	34.41	0.91	0.22	2.47	0.67	1.82	112

1. Reported within a conceptual pit shell (45 degree pit slope angle) and based on a cut-off grade of $7.5/t adjusted for metallurgical recovery and offsite costs.
2. NSPs used to define the resource are based on 75 percent recovery for gold and silver; 85 percent recovery for copper; USD$990 per ounce gold, USD$15.40 per ounce silver and USD$2.91 per pound of copper and an exchange rate of 0.92 $US/$CDN.

Exploration potential exists adjacent to the base case pit resource in the north, west and south directions as well as at depth. This is illustrated in Figure 14-19 which shows the base case open pit and all modelled blocks above a Au Eqv. grade of 0.5 gpt. The total modelled potential, inclusive of the pit delineated resource is summarized in

Table 14-11; with the base case Au Eqv. grade as 0.30 gpt highlighted in the table.

Table 14-11 Exploration Potential - Summary of Total Block Model Material by Au Eqv. Grade

Class	Gold Eqv. Cut-off (gpt)	Tonnes (Mtonnes)	In situ Grades				Total Modelled Metal			
			Au (gpt)	Cu (%)	Ag (gpt)	Au Eqv. [1] (gpt)	Gold (Moz)	Silver (Moz)	Copper (Mlbs)	Gold Eqv. [1] (Moz)
Indicated	0.30	90.1	0.47	0.17	1.89	0.84	1.37	5.46	330	2.42
	0.40	76.1	0.54	0.18	2.00	0.93	1.31	4.87	300	2.26
	0.50	64.6	0.60	0.19	2.09	1.01	1.24	4.32	271	2.10
	0.60	54.1	0.67	0.20	2.16	1.10	1.16	3.75	240	1.91
	0.70	44.9	0.74	0.21	2.23	1.20	1.06	3.21	209	1.72
	0.80	36.9	0.81	0.22	2.33	1.29	0.96	2.75	180	1.53
	0.90	30.6	0.89	0.23	2.39	1.39	0.87	2.35	156	1.36
	1.00	24.8	0.97	0.24	2.48	1.49	0.77	1.97	132	1.18
Inferred	0.30	221.2	0.34	0.13	1.61	0.64	2.43	11.39	650	4.51
	0.40	165.0	0.41	0.15	1.71	0.74	2.18	9.04	536	3.89
	0.50	123.9	0.48	0.16	1.81	0.83	1.91	7.18	435	3.30
	0.60	92.5	0.55	0.17	1.89	0.93	1.65	5.61	348	2.75
	0.70	67.7	0.63	0.18	2.01	1.03	1.38	4.35	271	2.23
	0.80	49.2	0.72	0.19	2.15	1.14	1.13	3.38	208	1.79
	0.90	35.4	0.81	0.20	2.28	1.25	0.92	2.59	158	1.42
	1.00	25.5	0.90	0.21	2.42	1.37	0.73	1.97	120	1.11

1. Gold equivalent grades are in situ using the same prices as for the NSP calculation but reporting at 100% recoveries.

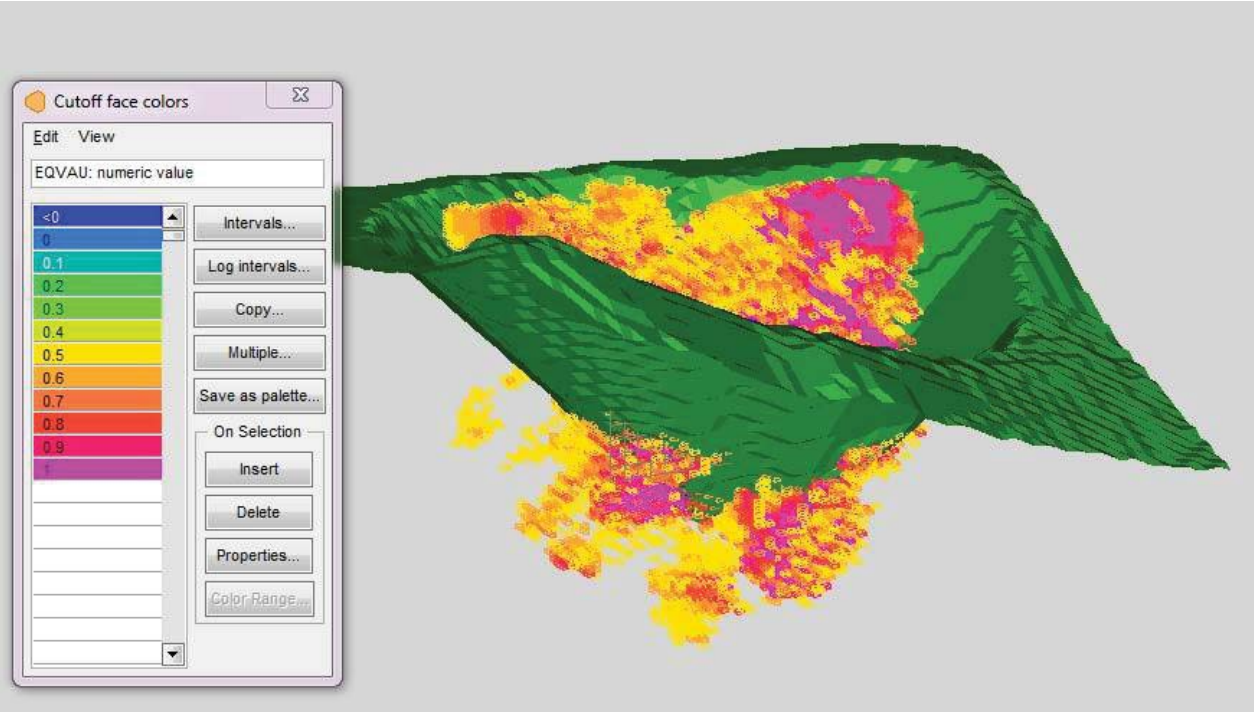


Figure 14-19 3D View looking N25E– Modelled Blocks within and Adjacent to Base Case Pit above a 0.5 gpt Au Eqv. Cut-off

15.0 Mineral Reserve Estimates

There are no reserve estimates at this time.

16.0 Mining Method

Open pit mining is being considered for the project, though no details have been developed at this time.

17.0 Recovery Methods

17.1 Process Design Parameters

Based on the outcomes of the metallurgical testwork summarized in Section 13, the relevant metallurgical parameters and design criteria for the processing flowsheet and plant equipment are shown in Table 17-1, for a plant throughput of 11Mtpa.

The important parameters related to comminution power are summarized in Table 17-2, where the effects of the potentially coarser grind size are evident.

Table 17-1 Metallurgical Parameters and Design Criteria

Parameter	Original Design		Revision based on BWI	
		Notes		Notes
General:-				
Operating days p.a.	360			
Availabilities:				
crusher	70%			
grinding/flotation	95%			
Grinding:-				
Abrasion Index	0.2	assumed (AMC)		
SAG parameters:-				
A*b (JK)	N/A			
Mia (SMC)	N/A			
RWI	22.2	assumed 20% > BWI	23.9	
Feed size F80 mm	140			
Product Size P80 µ	1000			
Ball mill parameters:-				
BWI	18.5	Island Mountain	19.9	KM 3499
Mib (SMC)	N/A			calc from raw Bond data
Feed size F80 µ	1000			
Product Size P80 µ	100		175	
Regrind parameters:-				
Feed size F80 µ	80	80% of ball mill product	140	
Product Size P80 µ	20			
Flotation:-				
mass pull to roughers wt%	15.0			
Grade - Recovery performance				
final conc grade % Cu	**25.0**			
overall recovery - copper	**92%**			
overall recovery - gold	**70%**			
% solids:-				
roughers	33			
cleaners	15			
Residence times (lab) mins:-				
roughers	10			
cleaners	5			
scale up factor	3 x			
Tailings Thickener:-				
% solids in underflow	60			

Table 17-2 Comminution Power

	Original			Revised		
	SAG	**Ball**	**Regrind**	**SAG**	**Ball**	**Regrind**
kW	12682	19973	4237	13643	13816	5271
HP	17000	26774	5679	18288	18520	7065

The main impact of the revised BWI parameters and considering a coarser grind is on ball mill power, 6MW less, with a small increase in both SAG and regrind power amounting to 2MW.

The other significant impact from a design point of view is that, whereas formerly the ball mill size was beyond what is currently possible with one mill therefore requiring two with additional circuit complexity, the revised parameters put the ball mill sizing comfortably within what is currently available as a single mill.

17.2 Proposed Process Flowsheet and Process Description

17.2.1 Overall Flowsheet

The testwork results have shown that the Whistler ore is metallurgically very amenable, despite low head grades, and that saleable, high quality copper concentrates with acceptable recoveries of both copper and gold can be achieved with a conventional flowsheet comprising single stage crushing, a SAG, ball mill and pebble crushing (SABC) grinding circuit followed by rougher flotation, regrinding of rougher concentrate and finally two stages of cleaning.

The levels of recovery and upgrade for both copper and gold are relatively insensitive to feed grade, which is a very positive result of significance for a project like Whistler, where low head grades are often perceived as an obstacle to successful extraction.

17.2.2 Crushing

Detailed crushing circuit design has not been carried out, this not being critical to the crucial element of power consumption, and being in any case a very standard part of the flowsheet. However based on industry comparable, it is reasonable to assume that, for the throughput envisaged of 11Mtpa, an 89" x 60" gyratory crusher with associated ancillary feeders and conveyors would be appropriate. This size selection recognizes the hardness of the Whistler ore (no crushing index data but assuming that the high BWI figure is an indicator of general hardness for comminution purposes).

17.2.3 Primary Grinding

The original grinding circuit design was based on the Island Mountain BWI data and a primary grind size of 100µm. The power requirements were determined by simple Bond formulae, assuming a Rod Mill Work Index RWI (for SAG sizing) of 20% greater than the BWI (a common industry assumption for a hard competent ore), and allowing a SAG "inefficiency factor" of 1.25 (again a common industry assumption). A 20% allowance was made for losses and design margin.

The QP considers that this approach to be adequate and appropriately conservative for early studies, although SAG-specific test data like JK drop weight tests or SMC tests would have been preferred and are essential for more definitive design at the next phase of study, as already mentioned.

The grinding power requirements have been tabulated in
Table 17-2.

The original design consisted of the following:

- SAG mill of 17,000 HP
- two ball mills of 13,500 HP each

With the Whistler-specific BWI test data and assuming a 175µm primary grind size was to be validated by further locked cycle testing, the revised design would consist of the simpler configuration:

- SAG mill of 18,000 HP
- one ball mill of 18500 HP

17.2.4 Flotation

The flotation mass balance was based on the parameters tabulated in Table 17-1, together with upgrade ratios for the rougher and cleaner concentrates that matched with testwork results, in order to derive volumetric flow rates through the various stages of flotation and appropriate flotation cell volumes that observed industry standard convention for the minimum number of cells to avoid short-circuiting in a bank (typically five).

Accordingly it is envisage that the flotation circuit will consist of the following:

- Rougher bank of 8 x 300m^3 cells
- First cleaner bank of 8 x 40m^3 cells
- Second cleaner bank of 6 x 10m^3

Regrind circuit design still requires optimization. The testwork was based on 20µm and no attempts have been made at this stage to investigate opportunities for coarsening the regrind size whilst maintaining separation performance in the cleaner circuit.

A regrind size of 20µm probably requires vertical stirred mills to achieve this fine grind size; however only a slight coarsening to 30µm would bring this back into the range of conventional tumbling mills.

It has been assumed that some optimization is possible and that conventional tumbling mills (lower capital cost but higher power consumption) would be suitable. On this basis the regrind circuit will consist of the following:

- One regrind mill of 5700HP for the original design (revised design would require a slightly larger mill of 7000HP, reflecting the coarser regrind feed size).

17.2.5 Concentrate Dewatering

Given the fine size of the concentrate following the necessary regrinding, it has been assumed that a pressure filter (Larox or similar) would be required to achieve acceptable transportable moisture limits. The filter would be preceded by a conventional concentrate thickener.

18.0 Project Infrastructure

Preliminary infrastructure is discussed in Section 5, while detailed infrastructure has not been determined at this time.

19.0 Market Studies and Contracts

No concentrate market studies have been done at this time; however the concentrates produced would be considered clean and no difficulties are anticipated in concentrate marketing.

20.0 Environmental Studies, Permitting and Social or Community Impact

Environmental studies and social or community impacts have not been undertaken in detail at this time.

21.0 Capital and Operating Costs

Capital and Operating costs have not been developed in detail at this time.

22.0 Economic Analysis

Economic analysis has not been completed at this time.

23.0 Adjacent Properties

There are no adjacent properties considered relevant to this technical report.

24.0 Other Relevant Data and Information

MMTS does not believe that there is any additional relevant data and information for the Whistler deposit.

25.0 Interpretation and Conclusions

MMTS has reviewed and audited the exploration data available for the Whistler Project. This review suggests that the exploration data accumulated by Cominco Alaska, Kennecott, Geoinformatics, and Kiska is generally reliable for the purpose of resource estimation.

Following geostatistical analysis and variography, MMTS constructed an initial mineral resource block model for Whistler gold-copper deposit constraining grade interpolation to within the two large mineralization domains. After validation and classification, MMTS used preliminary pit optimization routines to assess the portions of the Whistler gold-copper deposit that shows reasonable prospects for economic extraction from an open pit. A pit shell was used to report an open pit resource at a $7.50/t cut-off.

Mineral resources for the Whistler gold-copper deposit have been estimated in conformity with generally accepted CIM "Estimation of Mineral Resource and Mineral Reserves Best Practices" Guidelines. There is insufficient information at this early stage of study to assess the extent to which the mineral resources will be affected by environmental, permitting, legal, title, taxation, socioeconomic, marketing or other relevant factors.

In the opinion of MMTS, the block model resource estimate and resource classification reported herein are a reasonable representation of the global gold, copper and silver mineral resources found in the Whistler deposit. Mineral resources are not mineral reserves and do not have demonstrated economic viability. There is no certainty that all or any part of the mineral resource will be converted into mineral reserve.

In reviewing the mineral resource model MMTS draws the following conclusions:

- The preliminary pit optimization work conducted to allow MMTS to report an open pit resource clearly indicates that the ultimate pit depth is driven by the apparent closure of the higher grade main zones at depth due to lack of drilling. Clearly, the sulphide mineralization does not end with the end of the drilling data and therefore, deep drilling is required to test the depth extension of the higher grade Main Zones. With further deep drilling there is an opportunity to increase the amount of mineral resources potentially available for open pit mining.
- Step out drilling is warranted along the periphery of the deposit to properly close the lateral extensions of both the lower grade Whistler and the higher grade Main Zone. This drilling may result in expanding the size of the Whistler deposit. Furthermore, the drilling would help in understanding the spatial relationship between the main stage porphyry that carries all gold and copper mineralization with the barren later stages of porphyry.
- Geostatistical analysis, variography, and visual inspection suggest that Indicated mineral resource classification required drill spacing of approximately 50m. There is, therefore, an opportunity to upgrade parts of the Inferred mineral resources to an Indicated classification with additional infill drilling.
- The gold-copper mineralization is accompanied with zinc and lead sulphide mineralization that was not modeled as part of this initial resource evaluation. The preliminary metallurgical testwork completed by Kennecott suggests that copper and gold recoveries may be impacted by

the presence of lead and zinc sulphides. It would be beneficial to attempt to model zinc and lead zones separately and analyze their distribution relative to the gold-copper zones. Moreover, the relationship between gold and copper is poorly constrained. Petrographic work could help in establishing their parageneses and provide a better understanding the relative distribution of the two metals.

- The Whistler gold-copper deposit represents a significant discovery. However, potential stand-alone development may be challenging considering its location and its grade tonnage characteristics. Obviously, any additional discovery through regional exploration will have a positive impact on the development potential of the Whistler Project. Already several promising exploration targets have been identified and prioritized (see below).
- The characteristics of the Whistler gold-copper deposit are of sufficient merit to justify undertaking preliminary engineering and environmental studies aimed at completing the characterization of the context of the sulphide mineralization. In addition to providing a Preliminary Economic Assessment for the project, the conceptual study would be useful in determining certain specific economic thresholds for a viable mining operation in this part of Alaska.
- From the 2012 metallurgical testwork results and subsequent analysis, it appears that the Whistler deposit is amenable to a conventional flotation route to produce saleable high quality copper concentrates with gold credits, despite the low head grade, and that the levels of recovery and upgrade for both copper and gold are relatively insensitive to feed grade.
- Expected grade-recovery parameters are 92% copper recovery to a 25% Cu concentrate and 70% gold recovery.
- Although some late testwork on ore hardness revealed the ore to be harder than expected with a Bond Work Index of 19.9kWh/t, some batch flotation work also showed that the primary grind size could be increased from 100µm to 175µm, subject to confirmation with further locked cycle tests, with net savings in comminution power.

In order to base the conceptual study on project specific data, BRI should consider undertaking the following studies:

- Detailed topographic survey to derive accurate topography data (the area should include the deposit and other potential mine infrastructures such as processing and mine waste facilities);
- Baseline environmental studies including water quality monitoring, wildlife habitats and other studies for which long-term and seasonal data are required at the permitting stage;
- ABA testing and geochemical characterization of sulphide and barren rocks;
- Bench scale metallurgical studies including mineralogy, comminution tests and variability testing;
- Review of geotechnical data including recommendations for improving field geotechnical data collection and consideration for specific geotechnical drilling.

These studies are essential to the full characterization of the Whistler Project and to support a meaningful conceptual mine design and to provide robust key assumptions for a Preliminary Economic Assessment.

Property-wide exploration by Kennecott, Geoinformatics, and Kiska has shown that, in addition to the Whistler deposit, the property hosts other zones of porphyry Au-Cu mineralization that have the potential to positively contribute to the economics of mining development at the Whistler Project. These include the Raintree West and Island Mountain Breccia Zone prospects, where drilling has returned ore-grade mineralization over significant widths. At this time, however, drilling in these areas is of insufficient quantity or density to quantify the geometry, true widths or volume of mineralization.

Porphyry mineralization on the Whistler Project, as shown by the Whistler deposit, has a well characterized geophysical signature, including anomalous magnetism associated with both diorite lithologies and magnetite alteration and veining coeval with Au-Cu mineralization, and IP chargeability anomalies associated with elevated sulphide disseminations associated with mineralization. The entire property is covered by airborne magnetic surveys. These surveys have identified large areas of interest to focus exploration (Raintree, Rainmaker) and drill targets that have led to the discovery new zones of mineralization (Raintree West). In addition, these areas of interest, particularly the Whistler area, have been covered with 2D and 3D IP surveys, which in conjunction with the airborne magnetic data, have been used successfully to target “blind”, near-surface Au-Cu mineralization buried by glaciofluvial sediments.

With the exception of the Island Mountain prospect, much of the prospective exploration targets on the property are covered by glaciofluvial sediments. In addition, the quantity and quality of the geophysical data in these areas is such that further exploration in covered areas should employ drilling to target untested anomalies and expand known areas of mineralization (Raintree West, Raintree North, Rainmaker). At Island Mountain, further drilling is required to test the continuity, geometry and width of mineralization within and potentially along strike and at depth of the Breccia Zone. In addition, further geological field work (mapping, soil/rock sampling), compilation and interpretation could be undertaken to rank and prioritize other less advanced exploration targets for exploration drilling (Muddy Creek, Round Mountain, Puntilla, Snow Ridge, Dagwood, Howell Zone, Super Conductor).

26.0 Recommendations

At the Whistler Deposit, the following recommendations are made:

1) A better understanding of the current known faults could be an opportunity for increasing the resource at Whistler. Particularly in the south of the deposit (south of N6971200). There is a paucity of drillhole data on both sides of the Divide fault in this area, resulting in blocks left un-interpolated within the diorite solid. Furthermore, there is little evidence for the fault location. Previous interpretation (Kennecott, 2007) did not include the Divide fault extending south of approximately 6871280N. Figure 26-1 and Figure 26-2 are plan and section views of the model and composite Au grades. These plots indicate the area west of the interpreted Divide Fault with no drilling and Au grades not interpolated into the blocks, but within the LG pit resource (shown in black). Drillhole WH-10-19 returned economic grades. Targeting this area would both allow blocks to be interpolated in this area and better define the fault location.

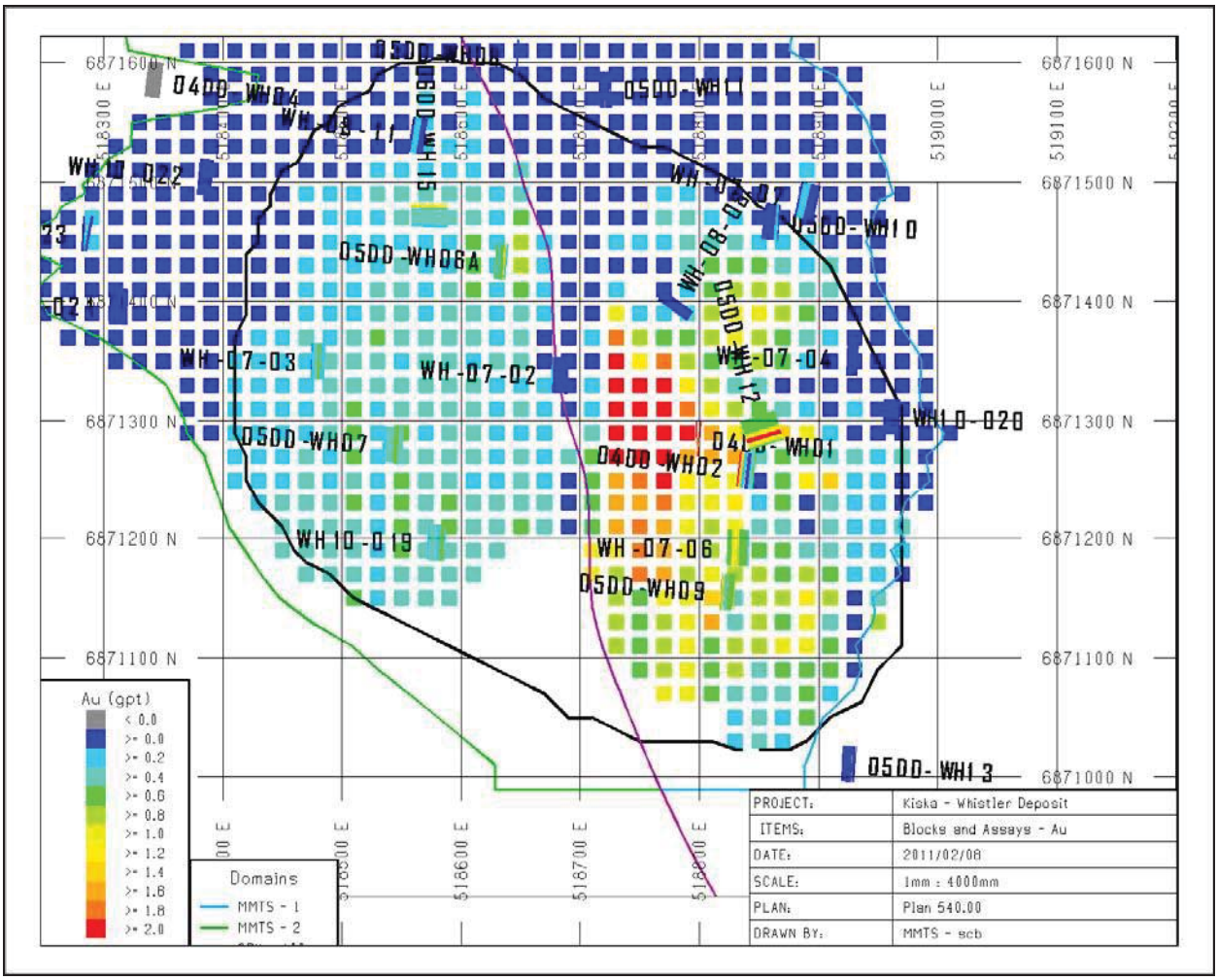


Figure 26-1 Plan of Au Grade and Drilling at 540m Elevation

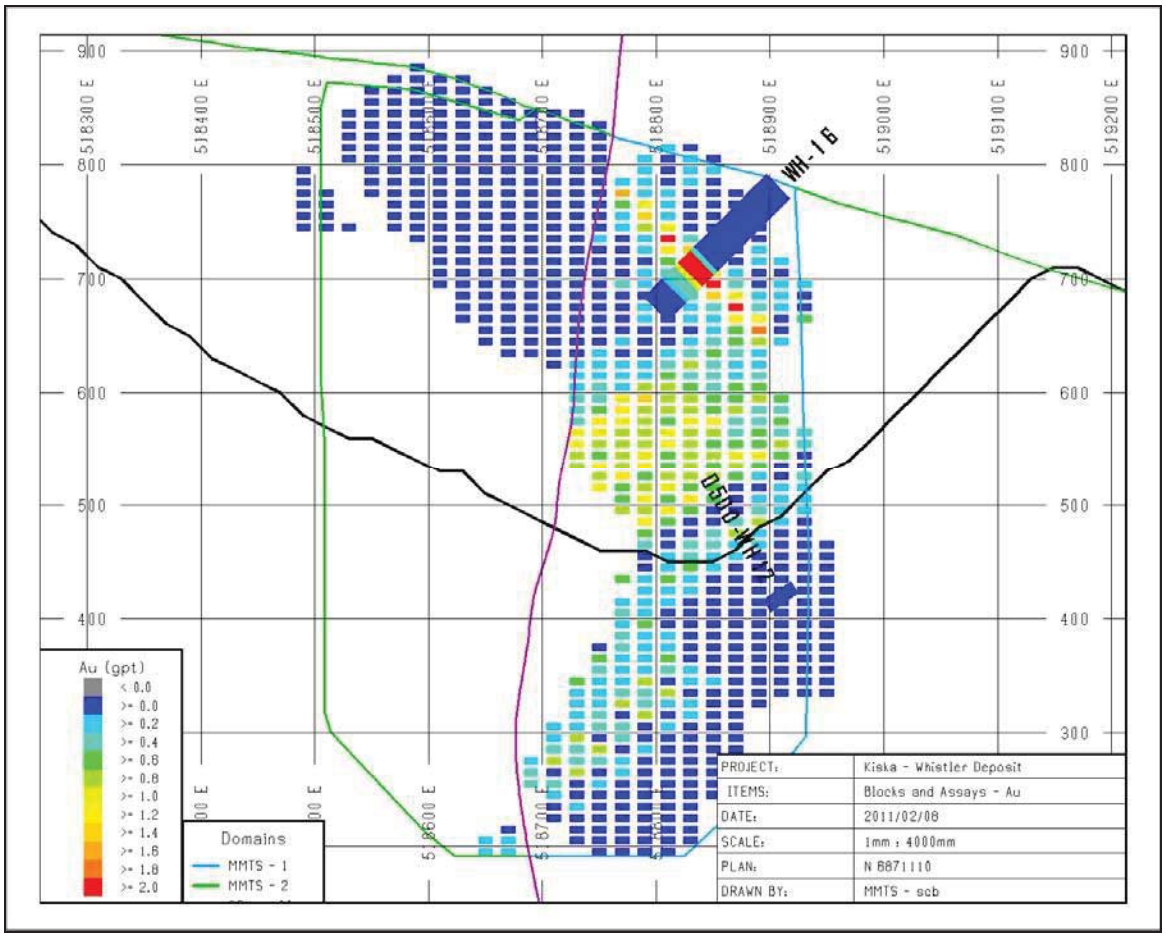


Figure 26-2 Section of Au Grade and Drilling at 6871110N

2) Revision of the geologic model to provide a better understanding of how the three later stages of intrusion relate to the mineralization. This would involve re-logging of core with the current knowledge of the assay values. Through re-interpretation in section and plan it is the expected outcome that 3D solids of each intrusive phase could be constructed.
3) Similarly, 3D solids of alteration and structural domains should be created from the re-interpretation.
4) Additional specific gravity measurements should be obtained from existing drillholes to augment the current database.
5) The use of classical statistics (cumulative probability plots, histograms, box-plots, and contact analyses) should be used to define the final controlling factors to mineralization as being due to lithology, alteration, structure, or a combination of these.
6) Creation of a new block model in which the updated geologic domains are used in conjunction with indicator kriging to reduce smoothing of the mineralized and non-mineralized zones within the deposit would increase the accuracy of the model.

7) Additional in-fill drilling to upgrade the classification of Inferred to Indicated would require drillhole spacing of 50m, as Indicated by Figure 26-3. However, this is recommended subsequent to the additional drilling outlined for the remaining deposits as discussed below.

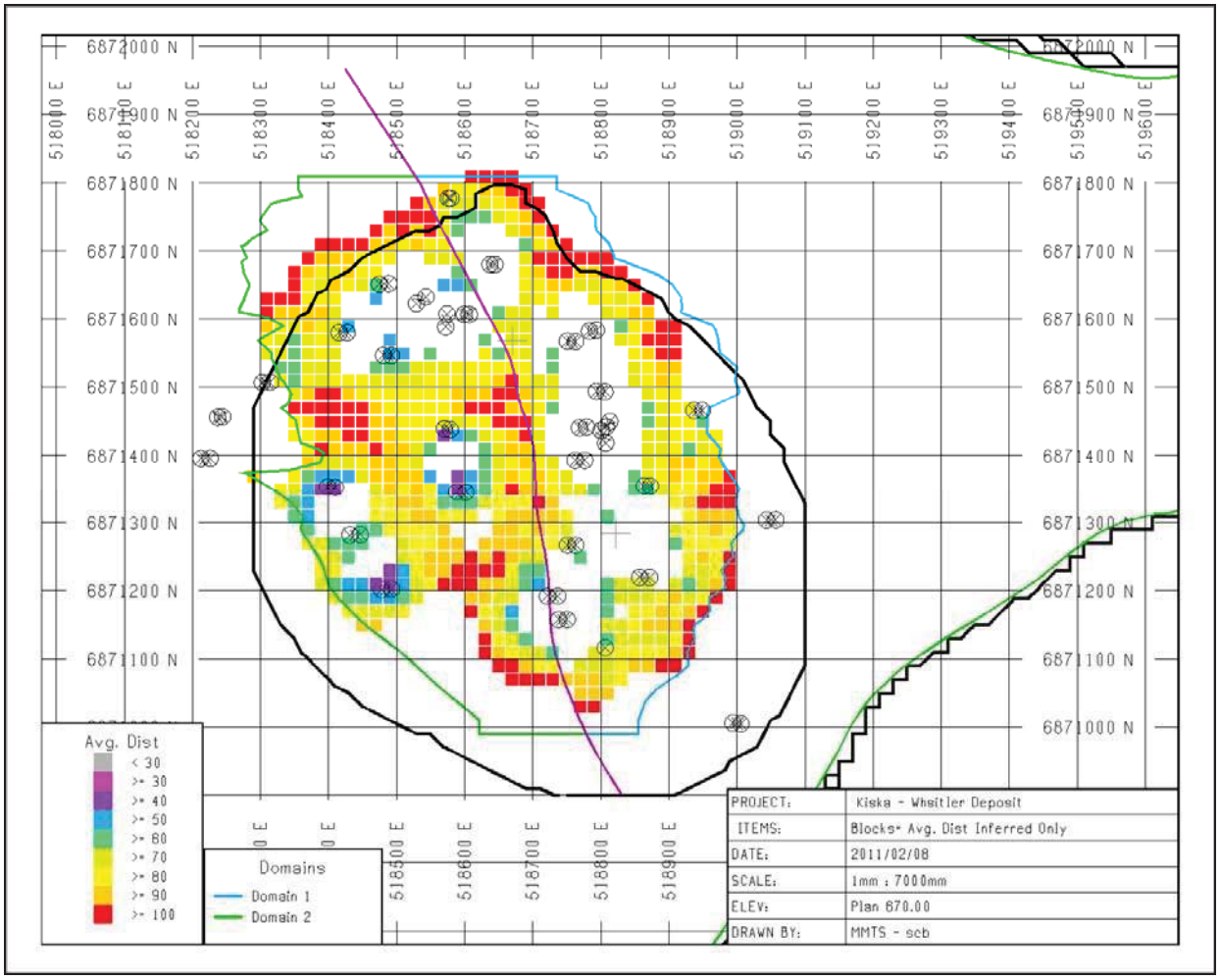


Figure 26-3 Plan of Average Distance to Composite for Inferred Blocks

Based on the interpretations and conclusions regarding the exploration potential on the property, an exploration drilling program comprised of two phases is warranted (Table 26-1).

Phase 1 would consist of a "top-of-bedrock" grid drilling program in the Whistler area and further surface mapping, sampling and compilation work to rank and prioritize other exploration targets on the project area (Muddy Creek, Snow Ridge, Puntilla, Round Mountain, Howell Zone, Super Conductor), with the aim to test one or more of these targets in Phase 2 (1500 metres).

The grid drilling program would penetrate the glacial cover and drill approximately 25 metres into bedrock to obtain geological and geochemical data. This data, in conjunction with the existing airborne magnetic data and 3D IP data, would considerably enhance exploration targeting for Phase 2 drilling.

Drilling on 200 metre centres from fifty holes (1250 metres) would cover the most prospective areas in the Whistler area.

The Phase 2 program should consist of follow-up drilling in the Whistler area to target anomalies generated by the grid drilling program and to expand drilling at Raintree West (2500 metres). Any significant mineralized intercepts from this phase of step-out drilling should be sent for metallurgical testing with particular focus on the impact of the relatively high lead zinc concentrations.

The Phase 2 drilling should also consist of 2500 metres of diamond drilling to in-fill and expand mineralization at the Breccia Zone at Island Mountain. Mineralization is open to south and north, and undrilled breccia bodies occur for 700 metres to the north of the Breccia Zone.

Concurrently with Phase 1 and 2, and after the results of this drilling, further geological and resource modelling and metallurgical studies (Phase 3), should be carried out as indicated above at the Whistler Deposit, and with new drilling results at Island Mountain and Raintree West.

Metallurgical recommendations include:

- Mineralogical studies to better understand the gold associations
- Comminution testing specifically to address SAG mill power requirements and design
- Variability testing
- Confirmatory locked cycle flotation testing at the coarser primary grind size

Table 26-1 Proposed Exploration Budget

Work Program	Units		Rate	Sub-total CDN $
Phase 1: Grid Drilling and Surface Mapping				
Grid Drilling	1250	**m**	$375	$468,750
Wages - Mappers and Samplers				$100,000
Rock and Soil Assays	500	samples	$50	$25,000
Planning and Supervision Wages				$150,000
	Sub-total Phase 1			**$743,750**
Phase 2: Drilling Program				
New target drilling - Whistler Area	1500	m	$375	$562,500
Raintree West Drilling*	2500	m	$375	$937,500
Raintree Metallurgical Sampling				$50,000
Island Mountain Breccia Zone Drilling*	2500	m	$475	$1,187,500
Planning and Supervision Wages				$300,000
	Sub-total Phase 2			**$3,037,500**
Phase 3: Resource Modeling (Whistler Deposit, Island Mountain, Raintree West) and Metallurgical Studies				
Wages and Technical Support				$150,000
Metallurgical Studies				$50,000
Update to Mineral Resource Model				$50,000
	Sub-total			**$250,000**
				BRI Support Costs
Database Support (field season)				$120,000
Data Interpretation (post field season)				$120,000
	Sub-total Support			**$240,000**
Sub-total				$4,271,250
Contingency			10%	$427,125
Administration				$200,000
TOTAL				**$4,898,375**

**all-in cost includes assays, helicopter-support, camp costs based on Kiska 2010 drilling costs*

27.0 References

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APPENDIX A Claims List

ADL Serial Number	Claim Name	Claim Owner	Reference M-T-R-S	Acres
633446	PORT 2151	BRI Alaska Corporation	2S022N018W30	40
633447	PORT 2152	BRI Alaska Corporation	2S022N018W30	40
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646059	IM 6	BRI Alaska Corporation	2S020N019W30	160
646060	IM 7	BRI Alaska Corporation	2S020N019W30	160
646074	IM 61	BRI Alaska Corporation	2S019N019W07	160
646075	IM 62	BRI Alaska Corporation	2S019N019W07	160
646076	IM 63	BRI Alaska Corporation	2S019N019W08	160

ADL Serial Number	Claim Name	Claim Owner	Reference M-T-R-S	Acres
646077	IM 64	BRI Alaska Corporation	2S019N019W08	160
646078	IM 65	BRI Alaska Corporation	2S019N019W09	160
646325	WHISPER 428	BRI Alaska Corporation	2S022N018W31	160
646327	WHISPER 430	BRI Alaska Corporation	2S021N018W06	160
646328	WHISPER 431	BRI Alaska Corporation	2S021N018W06	160
646330	WHISPER 433	BRI Alaska Corporation	2S021N018W06	160
646331	WHISPER 434	BRI Alaska Corporation	2S021N018W06	160
646338	WHISPER 441	BRI Alaska Corporation	2S021N018W07	160
646339	WHISPER 442	BRI Alaska Corporation	2S021N018W07	160
646343	WHISPER 446	BRI Alaska Corporation	2S021N019W12	160
646344	WHISPER 447	BRI Alaska Corporation	2S021N018W07	160
646350	WHISPER 453	BRI Alaska Corporation	2S021N019W13	160
646351	WHISPER 454	BRI Alaska Corporation	2S021N018W18	160
646355	WHISPER 458	BRI Alaska Corporation	2S021N019W13	160
646356	WHISPER 459	BRI Alaska Corporation	2S021N019W13	160
646764	IM 71	BRI Alaska Corporation	2S020N019W06	160
646765	IM 72	BRI Alaska Corporation	2S020N019W05	160
646766	IM 73	BRI Alaska Corporation	2S020N019W05	160
646767	IM 74	BRI Alaska Corporation	2S020N019W04	160
646774	IM 81	BRI Alaska Corporation	2S020N019W05	160
646775	IM 82	BRI Alaska Corporation	2S020N019W04	160
646783	IM 90	BRI Alaska Corporation	2S020N019W08	160
646784	IM 91	BRI Alaska Corporation	2S020N019W09	160
646792	IM 99	BRI Alaska Corporation	2S020N019W08	160
646793	IM 100	BRI Alaska Corporation	2S020N019W09	160
646801	IM 108	BRI Alaska Corporation	2S020N019W17	160
646802	IM 109	BRI Alaska Corporation	2S020N019W16	160
646810	IM 117	BRI Alaska Corporation	2S020N019W17	160
646819	IM 126	BRI Alaska Corporation	2S020N019W21	160
646820	IM 127	BRI Alaska Corporation	2S020N019W21	160
646824	WHISPER 464	BRI Alaska Corporation	2S023N019W27	160
646825	WHISPER 465	BRI Alaska Corporation	2S023N019W27	160
646826	WHISPER 466	BRI Alaska Corporation	2S023N019W34	160
646839	WHISPER 479	BRI Alaska Corporation	2S023N019W22	160
646840	WHISPER 480	BRI Alaska Corporation	2S023N019W27	160
646841	WHISPER 481	BRI Alaska Corporation	2S023N019W27	160
646842	WHISPER 482	BRI Alaska Corporation	2S023N019W34	160
646855	WHISPER 495	BRI Alaska Corporation	2S022N019W02	160
646856	WHISPER 496	BRI Alaska Corporation	2S022N019W11	160
646857	WHISPER 497	BRI Alaska Corporation	2S022N019W11	160
646858	WHISPER 498	BRI Alaska Corporation	2S022N019W14	160
646864	WHISPER 504	BRI Alaska Corporation	2S022N019W02	160
646865	WHISPER 505	BRI Alaska Corporation	2S022N019W02	160
646866	WHISPER 506	BRI Alaska Corporation	2S022N019W11	160
646867	WHISPER 507	BRI Alaska Corporation	2S022N019W11	160
646868	WHISPER 508	BRI Alaska Corporation	2S022N019W14	160
646869	WHISPER 509	BRI Alaska Corporation	2S022N019W14	160
646927	WHISPER 567	BRI Alaska Corporation	2S021N019W24	160

ADL Serial Number	Claim Name	Claim Owner	Reference M-T-R-S	Acres
646928	WHISPER 568	BRI Alaska Corporation	2S021N019W24	160
646934	WHISPER 574	BRI Alaska Corporation	2S021N019W23	160
646935	WHISPER 575	BRI Alaska Corporation	2S021N019W24	160
646942	WHISPER 582	BRI Alaska Corporation	2S021N019W26	160
646943	WHISPER 583	BRI Alaska Corporation	2S021N019W26	160
646944	WHISPER 584	BRI Alaska Corporation	2S021N019W25	160
646952	WHISPER 592	BRI Alaska Corporation	2S021N019W26	160
646953	WHISPER 593	BRI Alaska Corporation	2S021N019W26	160
646958	WHISPER 598	BRI Alaska Corporation	2S021N019W33	160
646959	WHISPER 599	BRI Alaska Corporation	2S021N019W33	160
646960	WHISPER 600	BRI Alaska Corporation	2S021N019W34	160
646961	WHISPER 601	BRI Alaska Corporation	2S021N019W34	160
646962	WHISPER 602	BRI Alaska Corporation	2S021N019W35	160
646968	WHISPER 608	BRI Alaska Corporation	2S021N019W33	160
646969	WHISPER 609	BRI Alaska Corporation	2S021N019W33	160
646970	WHISPER 610	BRI Alaska Corporation	2S021N019W34	160
646971	WHISPER 611	BRI Alaska Corporation	2S021N019W34	160
646972	WHISPER 612	BRI Alaska Corporation	2S021N019W35	160
650959	MUD 1	BRI Alaska Corporation	2S021N019W32	160
650960	MUD 2	BRI Alaska Corporation	2S021N019W32	160
650961	MUD 3	BRI Alaska Corporation	2S021N019W31	160
650962	MUD 4	BRI Alaska Corporation	2S021N019W31	160
650963	MUD 5	BRI Alaska Corporation	2S021N020W36	160
650964	MUD 6	BRI Alaska Corporation	2S021N020W36	160
650965	MUD 7	BRI Alaska Corporation	2S021N020W35	160
650966	MUD 8	BRI Alaska Corporation	2S021N020W35	160
650967	MUD 9	BRI Alaska Corporation	2S021N020W34	40
650968	MUD 10	BRI Alaska Corporation	2S021N020W34	40
650969	MUD 11	BRI Alaska Corporation	2S021N020W34	40
650970	MUD 12	BRI Alaska Corporation	2S021N020W34	40
650971	MUD 13	BRI Alaska Corporation	2S021N020W35	160
650972	MUD 14	BRI Alaska Corporation	2S021N020W35	40
650973	MUD 15	BRI Alaska Corporation	2S021N020W35	40
650974	MUD 16	BRI Alaska Corporation	2S021N020W35	40
650975	MUD 17	BRI Alaska Corporation	2S021N020W36	160
650976	MUD 18	BRI Alaska Corporation	2S021N020W36	160
650977	MUD 19	BRI Alaska Corporation	2S021N019W31	160
650978	MUD 20	BRI Alaska Corporation	2S021N019W31	160
650979	MUD 21	BRI Alaska Corporation	2S021N019W32	160
650980	MUD 22	BRI Alaska Corporation	2S021N019W32	160
650981	MUD 23	BRI Alaska Corporation	2S020N019W06	160
650982	MUD 24	BRI Alaska Corporation	2S020N020W01	160
650983	MUD 25	BRI Alaska Corporation	2S020N020W01	160
650984	MUD 26	BRI Alaska Corporation	2S020N020W02	160
650985	MUD 27	BRI Alaska Corporation	2S020N020W02	160
650986	MUD 28	BRI Alaska Corporation	2S020N020W03	40
650987	MUD 29	BRI Alaska Corporation	2S020N020W03	40
650988	MUD 30	BRI Alaska Corporation	2S020N020W03	40

ADL Serial Number	Claim Name	Claim Owner	Reference M-T-R-S	Acres
650989	MUD 31	BRI Alaska Corporation	2S020N020W03	40
650990	MUD 32	BRI Alaska Corporation	2S020N020W02	160
650991	MUD 33	BRI Alaska Corporation	2S020N020W02	160
650992	MUD 34	BRI Alaska Corporation	2S020N020W01	160
650993	MUD 35	BRI Alaska Corporation	2S020N020W01	160
650994	MUD 36	BRI Alaska Corporation	2S020N019W06	160
650995	MUD 37	BRI Alaska Corporation	2S020N020W11	160
650996	MUD 38	BRI Alaska Corporation	2S020N020W11	160
650997	MUD 39	BRI Alaska Corporation	2S020N020W10	160
650998	MUD 40	BRI Alaska Corporation	2S020N020W03	40
650999	MUD 41	BRI Alaska Corporation	2S020N020W10	160
651000	MUD 42	BRI Alaska Corporation	2S020N020W11	160
651001	MUD 43	BRI Alaska Corporation	2S020N020W11	160
656421	MUD 44	BRI Alaska Corporation	2S020N020W12	160
656422	MUD 45	BRI Alaska Corporation	2S020N020W12	160
656423	MUD 46	BRI Alaska Corporation	2S020N020W12	160
656424	MUD 47	BRI Alaska Corporation	2S020N020W12	160
667695	BT049	BRI Alaska Corporation	2S019N019W04	160

APPENDIX B Drill Collars

Hole ID	Easting (m)	Northing (m)	Elevation (m)	Azimuth (Degree)	Dip (Degree)	Total Depth
WH_07_01	518642	6871393	839	90	-55	308.15
WH_07_02	518465	6871351	853	90	-55	588.28
WH_07_03	518292	6871357	860	92	-60	675.44
WH_07_04	518769	6871358	862	92	-65	398.07
WH_07_05	518724	6871221	885	90	-58	365.15
WH_07_06	518578	6871185	879	90	-56	611.12
WH_07_07	518702	6871497	809	90	-56	374.39
HF_08_01	504200	6885265	435	220	-50	212.50
PR_08_01	519206	6871687	736	90	-60	244.08
RM_08_01	520580	6869800	379	200	-55	551.83
RM_08_02	520483	6869328	343	200	-60	210.21
RN_08_05	521260	6871988	427	220	-50	321.49
RN_08_06	520553	6871444	497	90	-60	300.50
WH_08_08	518834	6871499	825	212	-65	728.04
WH_08_09	518687	6871570	785	90	-60	273.78
WH_08_10	518595	6871676	792	90	-70	343.90
WH_08_11	518402	6871546	824	90	-60	542.07
WH_08_12	518380	6871651	816	90	-55	574.69
04-DD-WH-01	518858	6871285	883	270	-80	523.93
04-DD-WH-02	518639	6871270	873	90	-60	532.76
04-DD-WH-03	518619	6871683	788	236	-50	270.34
04-DD-WH-04	518504	6871580	807	270	-59	341.24
04-DD-WH-05	518867	6871451	844	270	-60	328.56
04-DD-WP-01	519941	6869265	402	270	-80	310.27
05-DD-CC-01	516708	6879522	632	79	-59	311.00
05-DD-WH-06-A	518505	6871443	825	87	-65	627.28
05-DD-WH-07	518277	6871276	879	94	-49	793.93
05-DD-WH-08	518558	6871608	798	88	-70	264.82
05-DD-WH-09	518615	6871155	885	91	-59	605.33
05-DD-WH-10	519044	6871470	836	264	-60	669.04
05-DD-WH-11	518856	6871589	796	265	-60	495.91
05-DD-WH-12	518761	6871542	799	163	-45	643.79
05-DD-WH-13	519013	6871005	692	270	-60	605.64
05-DD-WH-14	518600	6871777	779	270	-80	545.29
05-DD-WH-REC-01	516334	6881934	560	0	-90	149.04
05-DD-WH-REC-02	515363	6880687	663	0	-90	43.89
05-DD-WH-REC-03	520446	6877651	466	0	-90	203.60
05-DD-WH-REC-04	520281	6874506	593	0	-90	206.34
05-DD-WH-REC-05	519092	6874951	740	0	-90	200.55
05-DD-WH-REC-06	522066	6871836	396	0	-90	212.75
05-DD-WH-REC-07	518988	6870007	551	0	-90	157.88
05-DD-WH-REC-08	520534	6869699	371	0	-90	206.65
06-DD-WH-15	518565	6871715	790	171	-45	705.30
06-DD-WH-CC-02	517240	6879811	546	207	-50	331.32
06-DD-WH-REC-09	515593	6882005	601	0	-90	270.98
06-DD-WH-REC-10	521227	6871860	451	0	-90	180.44
06-DD-WH-REC-11	512542	6849103	1403	0	-90	132.62

Hole ID	Easting (m)	Northing (m)	Elevation (m)	Azimuth (Degree)	Dip (Degree)	Total Depth
06-DD-WH-REC-12	512985	6849601	1215	0	-90	136.24
06-DD-WH-RM-01	516737	6881692	576	236	-50	331.32
06-DD-WH-RN-01	520372	6869830	416	127	-50	175.87
06-DD-WH-RN-02	520868	6870725	397	205	-79	380.09
06-DD-WH-RN-03	520850	6872376	460	180	-80	296.41
06-DD-WH-RN-04	520651	6872084	479	90	-50	258.47
WH-01	518924	6871322	872	270	-60	104.88
WH-02	519003	6871270	810	0	-90	89.94
WH-03	519003	6871270	810	270	-45	172.56
WH-04	518821	6871263	890	90	-45	106.71
WH-05	518553	6871296	856	0	-90	92.07
WH-06	518735	6871311	871	90	-45	91.46
WH-07	518630	6871680	786	0	-90	94.21
WH-08	518735	6871449	833	90	-45	93.29
WH-09	518481	6871568	811	0	-90	93.90
WH-10	518495	6871441	825	0	-90	91.46
WH-11	518865	6871452	844	90	-45	91.77
WH-12	518524	6871098	902	90	-80	92.07
WH-13	518363	6871285	869	0	-90	92.07
WH-14	518700	6872057	710	0	-90	93.90
WH-15	518670	6871568	784	0	-90	124.09
WH-16	518908	6871116	781	270	-45	152.44
IM09-001	512318	6847653	1228	89	-50	386.90
IM09-002	512616	6849369	1319	133	-60	214.26
WH09-001	518320	6870465	845	0	-90	228.14
WH09-002	520658	6871455	475	270	-50	479.16
WH09-003	520475	6868197	396	230	-60	209.84
IM10-003	512699	6847059	763	72	-50	513.82
IM10-004	512358	6847666	1239	96	-55	541.02
IM10-005	512551	6849105	1383	31	-59	442.77
IM10-006	512312	6847602	1196	90	-45	446.53
IM10-007	512312	6847602	1196	90	-60	468.50
IM10-008	512413	6847853	1332	89	-45	438.61
IM10-009	512413	6847853	1332	89	-60	434.65
IM10-010	512354	6847699	1258	89	-45	510.54
IM10-011	512354	6847699	1258	89	-63	448.10
IM10-012	512315	6847653	1229	270	-59	359.97
IM10-013	512285	6847754	1217	90	-45	507.80
IM10-015	512021	6848139	1281	120	-50	321.87
WH10-004	520166	6872679	498	45	-55	341.91
WH10-005	521212	6874702	562	50	-65	383.44
WH10-006	521397	6871266	404	45	-60	373.99
WH10-007	520865	6874294	554	45	-70	261.51
WH10-008	521332	6872452	414	225	-65	413.92
WH10-009	521747	6873944	355	47	-61	359.36
WH10-010	520456	6869165	327	90	-55	431.90
WH10-011	520051	6871422	616	90	-60	668.73
WH10-012	523010	6869920	420	0	-90	201.17

Hole ID	Easting (m)	Northing (m)	Elevation (m)	Azimuth (Degree)	Dip (Degree)	Total Depth
WH10-013	518011	6872029	749	90	-55	441.05
WH10-014	517940	6871179	912	90	-60	349.11
WH10-015	516094	6881218	823	55	-50	364.85
WH10-016	515255	6880874	659	52	-49	288.95
WH10-017	521761	6871042	412	85	-52	364.54
WH10-018	520810	6873625	518	265	-51	398.41
WH10-019	518313	6871195	894	88	-52	892.45
WH10-020	519125	6871305	791	268	-55	851.92
WH10-021	518092	6871392	860	88	-59	873.25
WH10-022	518202	6871501	844	86	-58	910.33
WH10-023	518177	6871451	852	86	-70	928.51
WH10-024	520703	6871351	471	263	-49	307.24
WH10-025	520834	6871357	445	249	-51	428.85
WH10-026	520790	6871450	449	268	-48	355.40
IM11-016	513061	6847764	942	280	-45	257.86
IM11-017	512768	6847457	981	283	-45	358.75
IM11-018	512205	6847763	1161	90	-45	588.10
IM11-019	512775	6847590	1037	270	-45	287.12
IM11-020	512205	6847763	1161	90	-62	480.37
IM11-021	513649	6847401	553	180	-65	220.07
IM11-022	512140	6847641	1130	90	-60	652.18
IM11-023	514196	6848106	518	180	-65	285.14
IM11-024	512140	6847641	1130	270	-45	489.81
IM11-025	513437	6847928	758	270	-60	96.62
IM11-026	512281	6847860	1230	90	-50	570.50
IM11-027	512602	6847413	1020	270	-45	286.51
IM11-028	512145	6848054	1324	90	-45	334.67
IM11-029	512479	6848049	1406	70	-50	331.32
IM11-030	512145	6848055	1325	55	-45	500.94
IM11-031	512479	6848049	1406	70	-89	294.74
IM11-032	512020	6848143	1280	90	-45	434.19
IM11-033	512220	6848273	1425	90	-45	295.05
IM11-034	512194	6847855	1223	90	-46	502.62
IM11-035	512220	6848273	1425	90	-75	206.35
IM11-036	512383	6847755	1278	90	-46	236.83
IM11-037	512348	6847804	1274	90	-45	351.13
IM11-038	512249	6847702	1193	90	-45	367.89
IM11-039	512246	6847817	1191	90	-45	387.71
IM11-040	512317	6847605	1197	25	-45	405.08
IM11-041	512249	6847700	1194	90	-60	315.47
MC11-001	506538	6857159	1407	30	-65	303.89
MC11-002	506831	6857368	1358	243	-50	341.19
MC11-003	509615	6856016	1411	340	-44	310.29
RG11-026	519897	6870995	526	0	-90	75.29
RG11-027	520113	6871000	513	0	-90	49.99
RG11-028	520307	6870978	479	0	-90	57.00
RG11-029	520496	6871014	481	0	-90	57.00
RG11-030	520703	6870997	508	0	-90	29.57

Hole ID	Easting (m)	Northing (m)	Elevation (m)	Azimuth (Degree)	Dip (Degree)	Total Depth
RG11-031	520888	6871000	354	0	-90	117.50
RG11-032	521096	6870997	414	0	-90	136.25
RG11-047	519803	6871205	602	0	-90	29.57
RG11-048	519995	6871198	589	0	-90	90.52
RG11-049	520191	6871251	559	0	-90	36.88
RG11-050	520402	6871184	517	0	-90	50.90
RG11-051	520592	6871198	531	0	-90	60.05
RG11-052	520797	6871179	464	0	-90	63.09
RG11-053	521010	6871192	421	0	-90	91.14
RG11-054	521198	6871184	413	0	-90	46.33
RG11-073	520901	6871393	496	0	-90	59.43
RG11-111	520086	6871849	561	0	-90	224.64
RG11-112	520313	6871801	502	0	-90	194.16
RG11-113	520503	6871803	477	0	-90	96.62
RG11-114	520703	6871794	471	0	-90	50.90
RG11-115	520914	6871807	453	0	-90	45.05
RG11-116A	521100	6871800	448	0	-90	35.66
RG11-117	521306	6871797	450	0	-90	26.52
RG11-133	520231	6872010	518	0	-90	123.44
RG11-134	520402	6872006	504	0	-90	39.93
RG11-135	520603	6871993	495	0	-90	25.30
RG11-136	520791	6871990	469	0	-90	64.92
RG11-137	521007	6872004	450	0	-90	30.33
RG11-138	521198	6872012	431	0	-90	26.52
RG11-139	521407	6872032	488	0	-90	32.31
RG11-140	521612	6872018	394	0	-90	97.23
RG11-141	521793	6871961	393	0	-90	78.33
RG11-152	519931	6872185	564	0	-90	69.19
RG11-153	520113	6872198	531	0	-90	75.29
RG11-154	520279	6872207	457	0	-90	47.85
RG11-155	520455	6872213	492	0	-90	88.39
RG11-156	520693	6872201	485	0	-90	47.24
RG11-157	520896	6872203	456	0	-90	26.21
RG11-158	521116	6872211	443	0	-90	44.35
RG11-159	521324	6872195	435	0	-90	30.33
RG11-160	521498	6872203	412	0	-90	47.85
RG11-161	521723	6872194	400	0	-90	90.53
RG11-177	520585	6872402	486	0	-90	47.85
RG11-178B	520828	6872422	469	0	-90	102.72
RG11-179	520994	6872384	446	0	-90	105.46
RG11-182	521592	6872402	417	0	-90	72.24
RG11-196	520296	6872592	498	0	-90	57.00
RG11-197	520488	6872594	487	0	-90	33.22
RG11-198	520685	6872606	473	0	-90	48.31
RG11-199	520896	6872601	458	0	-90	60.05
RG11-218	520397	6872815	500	0	-90	55.78
RG11-219	520591	6872845	499	0	-90	60.66
RM11-023	520716	6869511	335	0	-90	45.57

Hole ID	Easting (m)	Northing (m)	Elevation (m)	Azimuth (Degree)	Dip (Degree)	Total Depth
RM11-024	520880	6869495	337	0	-90	60.50
RM11-031	520790	6869699	337	0	-90	135.94
RM11-032	520963	6869709	356	0	-90	45.42
SC-BLD11-004	522143	6875004	564	0	-90	69.19
SC-BLD11-005	522215	6875229	545	0	-90	84.43
SC-BLD11-007	522385	6875408	536	0	-90	47.85
SC-BLT11-006	522579	6874964	561	0	-90	44.81
SC-BLT11-008	522513	6874709	705	0	-90	50.90
SC-BLT11-009	522536	6874400	758	0	-90	111.86
SC-BLT11-033	522355	6874616	746	0	-90	192.33
SC-DGW11-019	521524	6874436	543	0	-90	45.11
SC-DGW11-020	521464	6873619	540	0	-90	57.00
SC-DGW11-021	521621	6874290	608	0	-90	60.04
SC-DGW11-029	521177	6873903	569	0	-90	75.29
SC-DGW11-030	520919	6873752	534	0	-90	101.64
SC-DGW11-031	520700	6873999	513	0	-90	66.14
SC-HTF11-022	519926	6870268	479	0	-90	99.67
SC-HTF11-023	520040	6870269	433	0	-90	81.38
SC-HTF11-024	520076	6870353	462	0	-90	50.90
SC-HTF11-028	519917	6870937	517	0	-90	61.42
SC-NPT11-032	520696	6874666	591	0	-90	53.95
SC-OMB11-035	536094	6866923	502	0	-90	208.48
SC-PTS11-016	520021	6873024	542	0	-90	50.90
SC-PTS11-017	520286	6873000	512	0	-90	83.21
SC-PTS11-018	519926	6873315	535	0	-90	53.95
SC-RBO11-034	523237	6871815	425	0	-90	63.10
SC-RED11-013	522108	6871144	393	0	-90	44.04
SC-RED11-014	522041	6870988	402	0	-90	70.10
SC-RED11-015	521969	6870820	377	0	-90	63.09
SC-RMK11-001	520960	6869971	357	0	-90	56.99
SC-RMK11-002	520867	6870142	392	0	-90	113.84
SC-RMK11-003	520176	6869831	434	0	-90	81.38
SC-SLD11-010	523815	6872436	645	0	-90	63.09
SC-SLD11-011	523565	6872257	556	0	-90	42.37
SC-SLD11-012	523455	6872604	691	0	-90	50.90
SC-WPR11-025	519664	6870000	482	0	-90	90.53
SC-WPR11-026	519800	6869691	450	0	-90	114.91
SC-WPR11-027	519595	6869659	488	0	-90	78.33
WH11-027	520477	6871556	498	86	-51	346.56
WH11-028	520427	6871654	493	90	-50	447.14
WH11-029	520479	6871561	495	270	-65	836.68
WH11-030	520430	6871657	494	270	-65	790.96
WH11-031	521425	6872427	439	225	-50	297.49
WH11-032	520941	6872546	455	225	-50	352.04
WH11-033	520335	6871667	539	270	-65	827.84
WH11-034	520942	6872552	461	225	-69	433.43
WH11-035	521020	6872503	446	225	-50	434.65
WH11-036	520235	6871648	555	270	-65	714.45

Hole ID	Easting (m)	Northing (m)	Elevation (m)	Azimuth (Degree)	Dip (Degree)	Total Depth
WH11-037	521039	6872644	474	225	-70	538.28
WH11-038	521101	6872643	486	225	-50	437.08
WH11-039	520455	6871752	490	270	-65	785.17
WH11-040	520944	6872691	462	225	-50	391.97
WH11-041	520737	6872623	474	45	-50	355.40
WH11-042	520590	6871977	484	270	-65	535.53
WH11-043	521006	6869705	347	270	-55	338.02
WH11-044	521142	6871755	441	45	-50	312.72
WH11-045	520959	6869714	360	180	-80	380.39
WH11-046	521396	6872076	406	225	-65	495.91
WH11-047	520670	6869739	373	210	-55	361.49
WH11-048	521396	6872076	406	225	-90	410.87
WH11-049	520663	6869928	400	210	-55	465.43
WH11-050	521029	6871852	444	45	-50	563.27
WH11-051	520531	6869981	422	0	-90	424.59
WH11-052	521611	6874377	581	0	-90	399.29
WH11-053	520335	6871667	539	0	-90	712.62