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Report Of The 1997
Diamond Drilling Program
Allin Creek Property
Allin 1-8 Claims

Omineca Mining Division
British Columbia
NTS 93L/01E
Latitude: 54° 10' 08"
Longitude: 126° 11' 05"

Owner/Operator:
Hudson Bay Exploration And
Development Company Limited
405 - 470 Granville Street
Vancouver, British Columbia
V6C 1V5

By: Mike Buchanan

January 16, 1998

25,381

GEOLOGICAL SURVEY BRITISH COLUMBIA
ASSESSMENT REPORT

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Summary

The Allin Creek Property is located in central British Columbia, 49 kilometres southeast of Houston, at 54°10'08"north latitude and 126°11'05"west longitude. The property is owned by G.H. Klein of Prince George and is under option to Hudson Bay Exploration and Development Company Limited. The property comprises eight mineral claims totalling 128 units within the Omineca Mining Division.

The claims, Allin 1-8, fall immediately adjacent to and partially overlap the former Equity silver mine property. Operating between 1980 and 1994, the Equity Silver mine produced over 2 million kilograms of silver making it British Columbia's largest producing silver mine at the time.

The property is underlain by early Cretaceous through Tertiary rocks that form part of the Stikine Terrane of the Intermontane Belt. Exposures on the Allin Creek property are limited to hilltops and creek banks. Known outcrops and previous drilling have identified lithologies including andesites, dacites, ash flows, basalts, argillites and intrusives.

Previous exploration on the Allin Creek property has outlined coincidental silver-copper soil geochemical, and induced polarization anomalies. More detailed work identified alteration and pyrite mineralization in outcrop and drill core, and located mineralized copper/silver float specimens. This work suggested that the possibility for an Equity Silver related system of mineralization may exist on the property.

The 1997 exploration program consisted of five BQ and six NQ sized diamond drill holes totaling 2177 meters. These holes tested IP and enzyme leach anomalies delineated and compiled during the 1996 exploration program. The results of the 1997 drill program failed to intersect any significant base and/or precious metal mineralization. The source of the mineralized float boulders remains unknown. The following report outlines the 1997 diamond drill program conducted by Hudson Bay Exploration & Development Co. Ltd. on the Allin Creek property.

Location & Access

The Allin Creek property, situated 49 kilometres southeast of Houston, immediately east of the former Equity Mine site, 34 kilometres southwest of Burns Lake and 585 kilometres northwest of Vancouver (Figure 1). The Allin claims are centred at 54°10'08"N latitude and 126°11'05"W longitude. The claims fall entirely within the 93L/01E map sheet of the NTS map series.

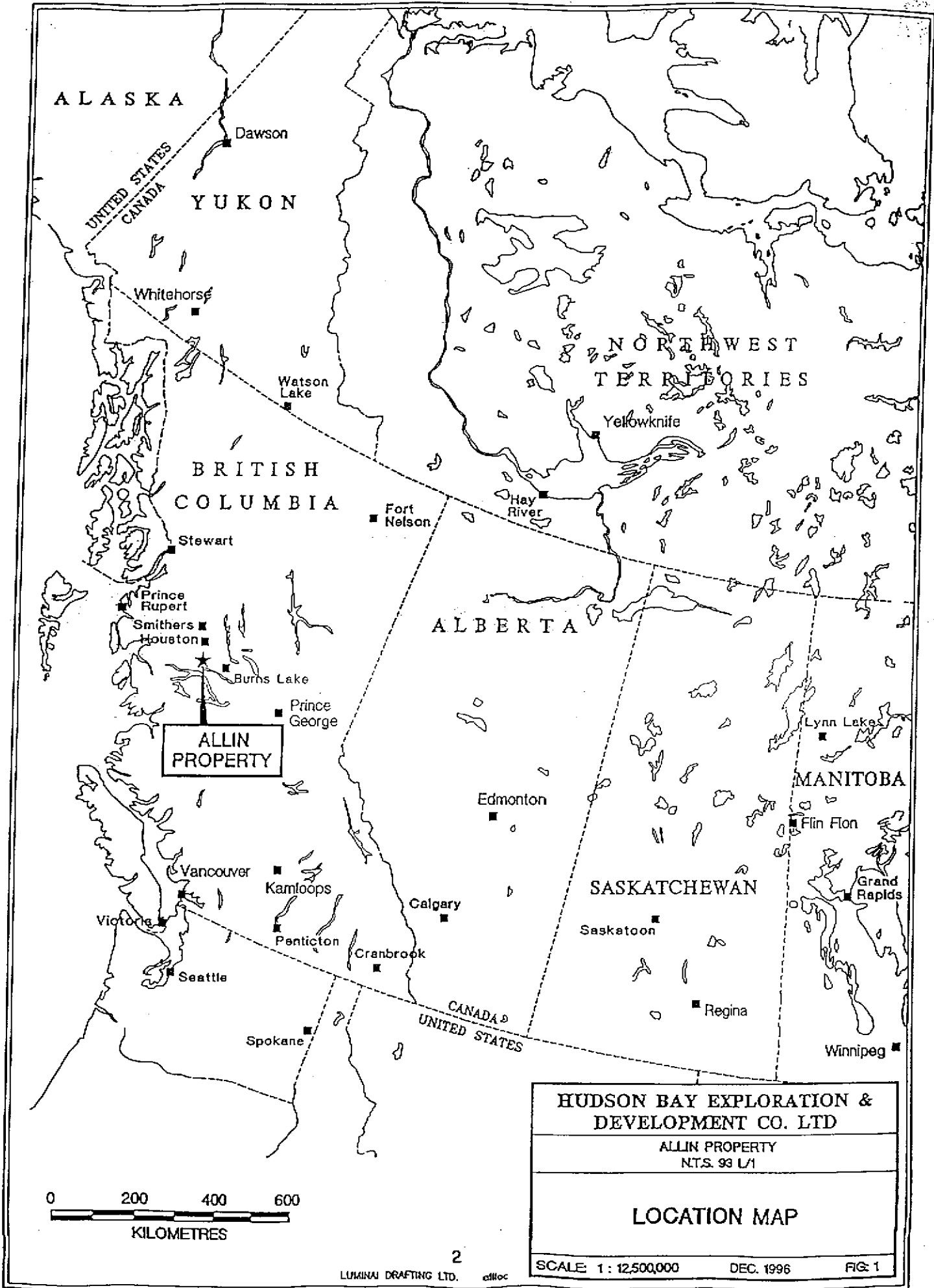
Access to the Allin Creek property can be made by helicopter based out of Houston or by a series of logging roads. The most direct route to the property using logging roads is from Houston via the Equity Mine, Buck Creek connector, Buck Creek, Colleymount and Allin Creek roads, a distance of approximately 68 kilometres (Figure 2). Alternatively, access from Houston along the Buck Creek, Colleymount and Allin Creek roads, a distance of approximately 80 kilometres (Figure 2). Previously other road access from the north and south was also available, however, these roads have since been deactivated or washed out.

Physiography, Vegetation & Climate

Topography on the property is moderate with elevations ranging from 1128 meters in the south to 1494 meters in the north. The property is generally well drained with swampy ground occurring along Allin creek and lesser tributaries. Vegetation consists of mature stands of subalpine balsam along the hillsides with lesser amounts of spruce and pine in the wetter regions. Alder occurs locally on slopes and with dwarf birch in marshy areas. Typically the area is subjected to warm wet summers and extended cold winters with snow depths of 1 to 1.5 meters. The property is generally free of snow pack between early-mid June and late October.

Ownership

The Allin Creek property is owned by Gerald H. Klein of Prince George, British Columbia and operated by through an option agreement by Hudson Bay Exploration and Development Co. Ltd.. Consisting of the eight claims, Allin 1-8, the property is comprised of 128 units, 3200 hectares located in the Omineca Mining Division (Figure 3). Listed below in Table 1 is the claim information and tenure status for the Allin 1-8 claims.



ALASKA

UNITED STATES
CANADA

YUKON

BRITISH COLUMBIA

ALBERTA

NORTHWEST TERRITORIES

SASKATCHEWAN

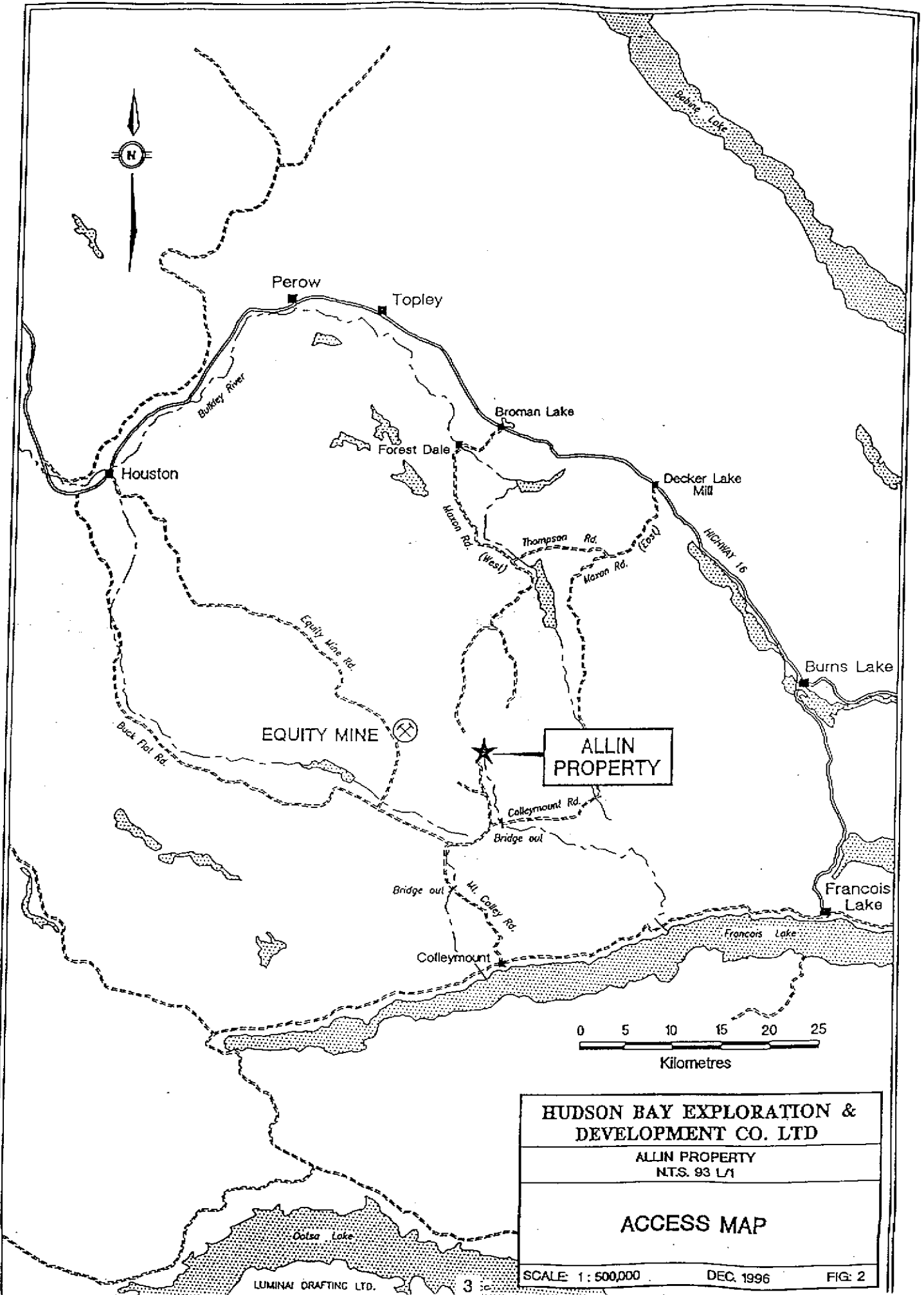
MANITOBA

CANADA
UNITED STATES

ALLIN PROPERTY



HUDSON BAY EXPLORATION & DEVELOPMENT CO. LTD
 ALLIN PROPERTY
 N.T.S. 93 L/1
 LOCATION MAP
 SCALE 1: 12,500,000 DEC. 1996 FIG 1



Perow

Topley

Broman Lake

Forest Dale

Houston

Decker Lake Mill

Burns Lake

EQUITY MINE

ALLIN PROPERTY

Francoise Lake

Colleymount

Dolsa Lake

LUMINA DRAFTING LTD.

3

0 5 10 15 20 25
Kilometres

HUDSON BAY EXPLORATION &
DEVELOPMENT CO. LTD

ALLIN PROPERTY
N.T.S. 93 L/1

ACCESS MAP

SCALE: 1:500,000

DEC. 1996

FIG. 2

TABLE 1: CLAIM STATUS

CLAIM NAME	UNITS	RECORD NUMBER	PROJECTED EXPIRY
Allin 1	20	316461	*March 8,2007
Allin 2	20	316462	*March 8,2007
Allin 3	20	316463	*March 8,2007
Allin 4	16	339852	Sept 19,1999
Allin 5	16	339853	Sept 17,1999
Allin 6	16	339854	Sept 18,1999
Allin 7	8	350311	Sept 7,2007
Allin 8	4	350312	Sept 8,2007

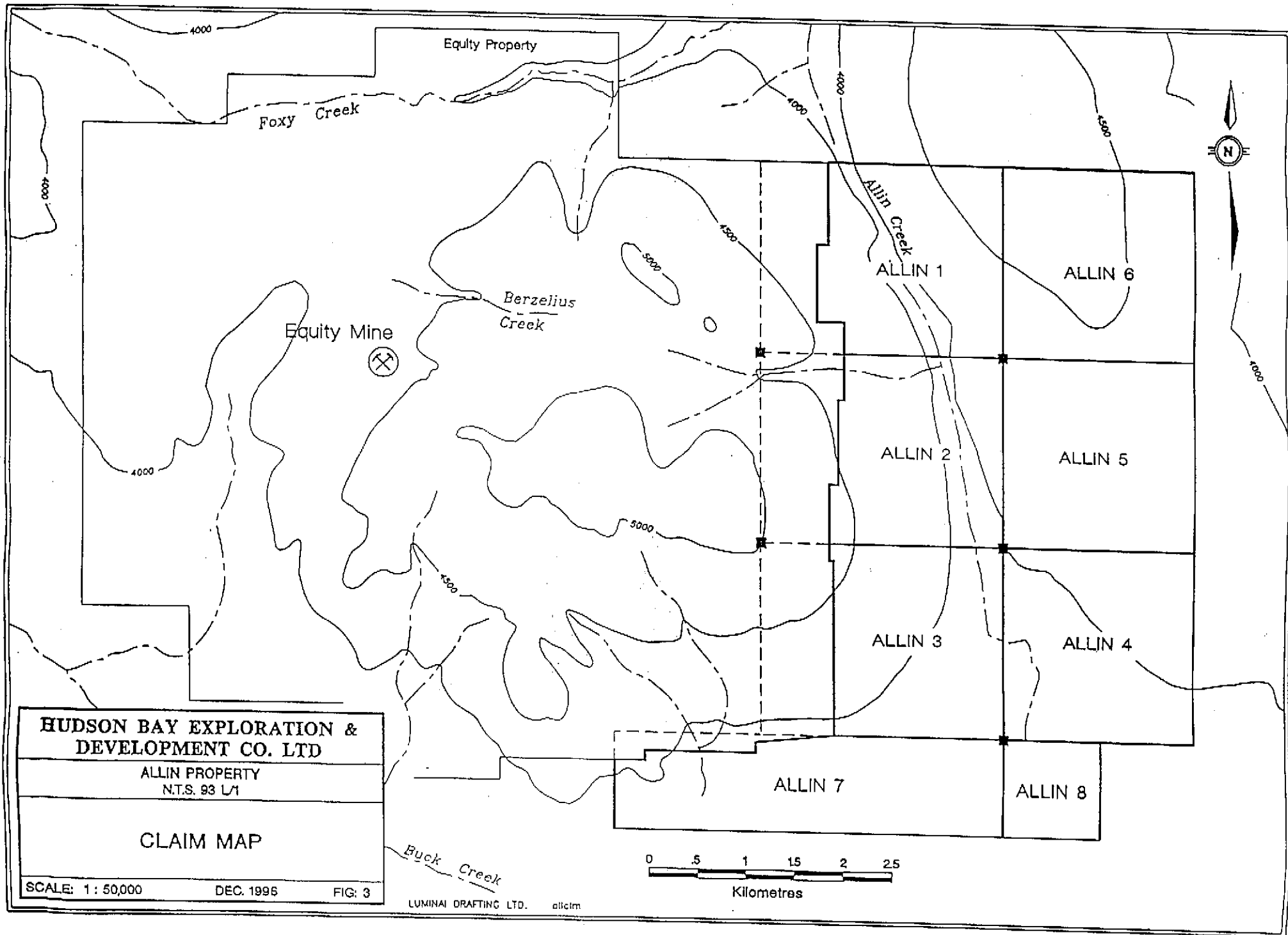
(*pending acceptance of this assessment report)

History of Work

In brief, the Allin property has undergone numerous phases of exploration since the 1970's including prospecting, mapping, geochemical sampling and geophysical surveying (Anselmo, G.L. 1970; Anselmo G.L. et al., 1970; Bell, R.A. et al., 1970; Mark, D.G., 1987; Mark, D.G. 1989). Over this time a number of targets including low order coincident copper-silver soil anomalies and multiple number IP anomalies have been located and drill tested with largely inconclusive results (Garagan, T, 1988).

Prospecting in 1992 by Gerald Klein produced mineralized float boulders that contain similar copper/silver grades to those found at the then shutting down Equity deposit located some 5 kilometers to the northwest. Based on this information Equity Mines Ltd. optioned the Allin property from Gerald Klein and proceeded complete 7 drill holes on several IP targets and a coincident copper-silver soil anomaly. Results from this phase of drilling also failed to explain the sources of the anomalies (Wall, T.J 1993).

In 1996 Hudson Bay Exploration and Development Co. Ltd. optioned the Allin 1-3 claims and proceeded to stake the Allin 4-8 claims for G. Klein. A review of previous work suggested that a thick layer of overburden covered much of the property and that this overburden may cover blind deposits which are not amenable to conventional geochemical exploration techniques. Due to this possibility and some question as to the



**HUDSON BAY EXPLORATION &
DEVELOPMENT CO. LTD**

ALLIN PROPERTY
N.T.S. 93 L/1

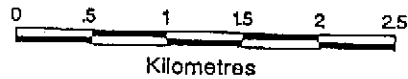
CLAIM MAP

SCALE: 1 : 50,000

DEC. 1995

FIG: 3

LUMINA DRAFTING LTD. allcim



ice direction of the last glaciation in the area, a geochemical sampling program in the summer of 1996 was conducted that utilized enzyme leach techniques, which are said to be able to penetrate thick overburden (Jackson, R.G., 1995). From this work 10 enzyme leach anomalies and 1 IP target were selected for drilling during the 1997 exploration season.

Work Program

Work on the Allin property was conducted from June 23, 1997 to September 24, 1997. During this time personnel including Ed Fluskey, Dave Garratt, Mark Cruickshank, Mike Buchanan of Hudson Buay Exploration & Development Co. Ltd. and Beaupre Diamond Drilling of Princeton, British Columbia conducted a drilling program consisting of 4 road access and 7 helicopter supported diamond drill holes totaling 2177 meters. Access to the sites was accommodated by the creation of 3.4 kilometers of hand cut ATV trails and 0.18 kilometers of tractor trail. Each site and/or trail used in the diamond drilling program was subjected to the following steps:

Location, evaluation and cutting of the trails and drill sites

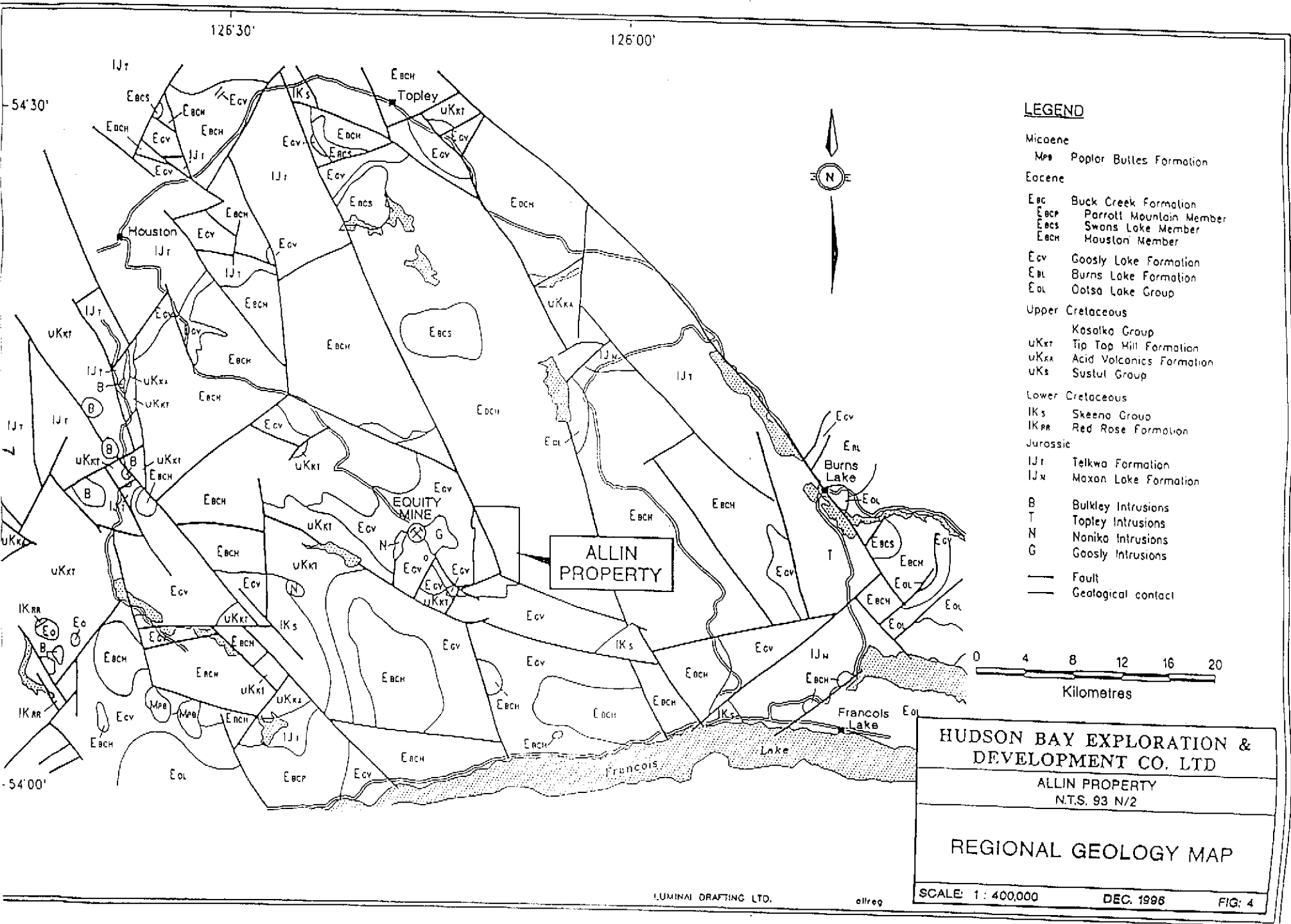
- Careful selection of sites which contained the fewest number of merchantable healthy trees.
- Photographs of areas before cutting thereby making a permanent record of the area prior to any disturbance.
- Assessment of the number, size and species of the trees to be cut down.
- Pre-cutting of all trees (if tractor is to be used).
- Cutting of branches and trees as prescribed by Ministry of Forests and the 'Guidelines for Mineral Exploration (1992).
- GPS control points taken as to facilitate mapping of the trails and sites for later reference.

Reclamation of trails and sites

- Clean trails and sites of garbage and debris.
- Back blade and smooth trail and site (if tractor was used).
- Spread fertilizer and grass seed on disturbed areas.
- Backfill any sumps used during the drilling.
- Throw and scatter logs and branches back onto trails and drill sites.

Regional Geology

The Allin Creek property lies central to the Buck Creek area. This area falls within a fault bounded Tertiary basin defined by a series of arcuate features and radial lineaments inscribed within points approximated by Houston, Burns Lake and Francois Lake. This basin has been described as a protocaldera structure (Van Damme V.P. 1996). The Buck Creek area is underlain by a diverse suite of



Mesozoic and Tertiary volcano-sedimentary rocks and a smaller number of igneous intrusions (Table 2) (Figure 4).

TABLE 2: TABLE OF STRATIGRAPHIC FORMATIONS AND INTRUSIVE COMPLEXES

AGE	STRATIGRAPHY	THICKNESS (METERS)	INTRUSIVES
MIOCENE	POPLAR BUTTES FORMATION	60-90	FEEDER DIKES
EOCENE	FRANCOIS LAKE GROUP		
	BUCK CREEK FORMATION	400	FEEDER DIKES
	PARROT MOUNTAIN MEMBER		
	SWANS LAKE MEMBER		
	HOUSTON MEMBER		
	GOOSLY LAKE FORMATION	500	GOOSLY(48-54M)
	BURNS LAKE FORMATION		
U. CRETACEOUS	TIP TOP HILL FM-KASALKA GP	500	NANIKA(47-54M)
	ACIDIC VOLC FM-KASALKA GP	100	BULKLEY (64-84M)
L. CRETACEOUS	SKEENA GROUP -KASALKA GP	750	
	-SKEENA GP		
	-RED ROSE FM		
JURASSIC	HAZELTON GROUP		TOPLEY(133-178M)
	TELKWA FORMATION		
	MAXAN LAKE FORMATION		

Modified after Church et al. 1990

Property Geology

Regional mapping of the Buck Creek area documents the Allin claims as being underlain by lithologies of the lower Cretaceous Skeena group, and younger Eocene formations. Allin creek has been defined as a regional boundary with Buck Creek Formations of andesite-basalt composition occurring to the east and Goosly Lake Formation trachyandesite to the west. A triangulated wedge of Equity sequence rock is indicated in the southwest limits of the claims.

Outcrops on the Allin property are very limited. Mapping, prospecting and drilling both past and present indicate much of the claims are covered by a thick compact blanket basal till with depths ranging from 6.5 meters to as much as 85.35 meters. The only known areas of outcrops are along a north-south trending ridge located east of Allin creek, where numerous outcrops of basalt occur and along the east flowing section of Allin creek between the Allin 1 & 2 claims where outcrops consist of altered volcanics and unaltered intrusives.

Although overburden is fairly thick and outcrops few, a total of 10 previous

diamond drill holes have provided much of the information as to the underlying geology found in the northwest portions of the property. This previous drilling on the Allin 2 claims indicates lithologies of ash flows, tuffs, andesites, dacites and diorites (Garagan, 1988 & Wall, 1993).

Drill holes ddh97-09 & ddh97-11 of the 1997 exploration program, located east of the previous drilling intercepted flows of andesite, dacite and ash crosscut by weakly altered andesite and dacite dykes. The remaining holes drilled during the 1997 program were located south and east of any previous drilling. These holes with the exception of ddh97-10 intercepted andesites and amygdaloidal basalts which are thought to belong to the Eocene Buck Creek and Goosly Lake Formations. Hole ddh97-10 located in the Allin 7 claim intersected black argillites and minor andesites. These lithologies are thought to belong to the Equity sequence of rocks.

Mineralization on the property as described in previous drilling (Garagan, 1988 & Wall, 1993) consists of pyrite and pyrrhotite occurring as fracture fillings, blebs/clots and disseminations volcanic flows and tuffs. Trace amounts of chalcopyrite, sphalerite, galena and tetrahedrite mineralization have been observed in veins, but occur in no significant amounts.

Drilling conducted during the 1997 exploration program intersected much of the same types of mineralization as recognized by previous drilling. Drill holes ddh97-09 and ddh97-11 contained significant amounts of pyrrhotite and pyrite as blebs and disseminations in ash flows but, upon assaying revealed no anomalous base or precious metal values. No other significant mineralization apart from pyrite and pyrrhotite was observed in any of the other holes drilled during the course of the 1997 drill program.

Diamond Drilling

The 1997 drill program drilled approximately 2177 meters of core. A total of 948 meters of BQ sized core was drilled over 5 sites ddh97-01 to ddh97-05 and 1229 meters of NQ sized core was drilled over the remaining 6 sites ddh97-06 to ddh97-11. All 2177 meters of core was logged. Logging and sampling of the core was completed in camp and the bulk of the core is currently being stored at the edge of the clear-cut on the Allin 3 claim (Map 1 back pocket), with the exception of ddh97-09 and ddh97-11 which have been removed from the property by G. Klein to Perow, B.C. for safer storage.

From 2177 meters of core drilled on the property, 258 meters of selected core was collected in 121 samples, averaging 1.5 to 3 meters in length. The samples were marked, logged, split in half using a hand operated core splitter. Half the sample was put back into the core box and the other half was placed into plastic bags for shipment to Chemex Labs in North Vancouver, B.C. Once at Chemex Labs the samples were

crushed to approximately 150 mesh and then analyzed using 32 element ICP followed Fire Assay + Atomic Absorption for gold.

Results and Discussion

A total of 11 diamond drill holes were drilled on the Allin property during the 1997 drill program. Drill holes ddh97-09 and ddh97-11 were the only holes to intersect interlayered ash flows, andesites and dacites. These lithologies are thought to be similar to the rocks hosting the Equity deposit. Mineralization in these two holes consisted of pyrrhotite and pyrite occurring as blebs and disseminations with visual estimates ranging from 3 to 10% (Appendix 2). No significant base or precious metal values were assayed (Appendix 3). However, trace levels of arsenic were found in two 3 meter intervals taken near the bottom of ddh97-11.

The remaining holes drilled on the property with the exception of ddh97-10 which consisted of black argillites, intersected young volcanics consisting of andesites and amygdaloidal basalts thought to belong to the Eocene aged Buck Creek and Goosly Lake Formations. Minor amount of visible pyrite were noted in the core but, random sampling and assaying of pyrite mineralization indicated no significant base or precious metal values.

Conclusion

Drilling of the enzyme leach anomalies outlined by the 1996 soil geochemical survey was inconclusive. Results suggest that significant amounts of overburden cover much of the property. Drilling on the east side of Allin creek indicate substantial thicknesses of Eocene aged volcanics of the Buck Creek and Goosly Formations. The source of the mineralized float boulders on the property remains to be found. No significant base and /or precious metal mineralization was encountered in any of the holes, however, favourable geology consisting of altered ash flows with disseminated pyrite/pyrrhotite does exist in the northern portions of the property. This favourable geology does remain open to the north and east of ddh97-09.

Statement Of Expenditures Allin Property

Personnel Costs

Michael Buchanan, Project Geologist - 70 days @ \$180/day	\$ 12,600
Edward Fluskey, Geologist - 25 days @ \$200/day	\$ 5,000
Dave Garratt, Assistant - 53 days @ \$150/day	\$ 7,950
Mark Cruickshank, Assistant - 44 days @ \$150/day	\$ 6,600
Troy Sims, Camp Cook - 58 days @ \$210/day	<u>\$ 12,180</u>
Total	\$ 44,330

Room & Board

6 Men (avg) - 70 days @ \$35/man/day	\$ 14,700
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Vehicles

2 Trucks - 2 months @ \$2,000/month/truck (incl. fuel)	\$ 8,000
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Helicopter

1 Hughes 500 - 24hrs @ \$860/hr (incl. fuel)	\$ 20,640
--	-----------

Diamond Drilling

1 LF 70 Hydraulic Drill and crew - 1911 meters @ \$67.50/meter	\$128,992
--	-----------

Analytical Charges

121 core samples @ \$15.54/sample	<u>\$ 1,881</u>
Total	\$ 1,881

Report Preparation

6 days @ \$180/day	\$ 1,080
Drafting/Secretarial	<u>\$ 1,000</u>
Total	\$ 2,080

Total Expenditures \$220,623

STATEMENT OF QUALIFICATIONS

I, Michael Buchanan, of Vancouver, B.C. hereby certify that:

- 1) I am a graduate of the University of British Columbia, with a BSc (Hon) in Geology (1995).
- 2) I am currently employed as a Geologist for Hudson Bay Exploration & Development Company Limited.
- 3) I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (Geologist in Training).
- 4) The information contained within this report is based on published and unpublished reports on the property and work carried out in part or in full by myself and others.
- 5) I have no interest in the property or any other within a 10 km radius.

Signed this day 16TH of January, 1998.



Michael Buchanan
Geologist
Hudson Bay Exploration &
Development Co. Ltd.

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Appendix 1

Hole No.: DDH97-01			Depth: 150.29 m	Horizontal Length:	
Property: ALLIN			Location: 49KM SOUTHEAST OF HOUSTON		Province: BC
Claim No.: 350311		Reference No.:		Project:	
Grid Name: ALLIN_1		Grid Type (Imperial/Metric): Metric			
Grid North Azimuth Measured Clockwise From True North: 30.000°					
Grid Co-ordinates & Attitude Of Drill Hole Collar:					
Easting: -2,750.00 m		Northing: 2,000.00 m			
Elevation:		Hole Angle: -60.00°			
Hole Direction Measured Clockwise From Grid North:				60.00°	
Hole Direction Measured Clockwise From True North:				90.00°	
Date Drilling Started: 27-JUL-97			Date Finished: 30-JUL-97		
Drilled By: BEAUPRE DRILLING					
Logged By: M.D. Buchanan					
Legend For Core Logging Codes: BC (GENERAL)					
Target Type: ENZYME LEACH				Borehole PEM: No	
Core Size: BQ		Cemented: No			
Casing Depth: 26.52 m		Casing Pulled: Yes			
Water Depth:		Overburden Depth: 22.97 m			
Level:		Section:		Drift:	
NTS Sheet Number: 093L01					
NTS Sheet Name: COLLEYMOUNT					
UTM Grid Zone: 9		UTM Datum: NAD83			
UTM Easting: 684,852.00 m		UTM Northing: 6,003,853.00 m			
Assay Elements:					
AU	AG	CU	ZN		
Data Entry Marked Complete: Yes					

General Comments About Hole

- vertical overburden depth 9.14m.
- BQ core starts at 18.29m.
- enzyme leach target.
- all drill steel recovered.
- casing recovered.
- ground conditioning generally good.
- overall core recovery 94%.
- hole ddh-97-01 composed of andesite becoming vesiculated basalt??? near bottom of hole.

18-DEC-97
09:50:31

Hudson Bay Exploration And Development Co. Ltd.
Diamond Drill Log
Comprehensive Report For Hole DDH97-01

Page 2

In Hole Survey Method: Dip Test

<u>Distance (m)</u>	<u>Azimuth</u>	<u>Dip</u>
0.00	90.00	-60.00
51.20	0.00	-61.00
150.30	0.00	-57.50

Depth (m)		Description Of Core
From	To	
0.00	18.29	<u>BW CASING</u> Coded As: bw;bld,gt BW Casing, , . -NQ rods used in place for BW casing. -overburden composed of glacial till. -pebble to cobble sized clasts of trachyandesite and basalts.
18.29	38.71	<u>ANDESITE FLOW</u> Coded As: 8p;fphy,frct Andesite Flow: feldspar-phyric, light gray to light maroon, aphanitic. -trachyandesite. -bladed feldspar phenocrysts. -fractures and vining of quartz-carbonate. -brecciated gradational lower contact. Major Rock Forming Minerals: 35% elongate feldspar, phenocryst 40 mm grains; 10% equant hornblende, phenocryst 10 mm grains.
	18.29 30.48	<u>WEATHERED ANDESITE</u> Coded As: 8;wth Andesite Flow, maroon to gray, brecciated. -weathered andesite. -aphanitic-porphyrritic texture. -secondary weathering of feldspar to clay and chlorite. -iron oxide staining along fractures. -sharp lower contact.
38.71	54.92	<u>BRECCIATED ANDESITE</u> Coded As: 8p;frct,bxt;50D Andesite Flow: feldspar-phyric, light maroon to maroon, brecciated. -fault related?? brecciated andesite. -non-uniform brecciation. -abundant broken feldspar phenocrysts. -subangular to angular fragments in maroon coloured clay matrix. -fractures filled with calcite and minor kaolinite??. -subtle leached lower contact. Major Rock Forming Minerals: 30% elongate feldspar, phenocryst 40 mm grains.
54.92	73.66	<u>TRACHYANDESITE</u> Coded As: 8p;fphy,frct Andesite Flow: feldspar-phyric, light gray to gray, aphanitic-porphyrritic. -trachyandesite. -fractures and vining of quartz-carbonate.

Depth (m)		Description Of Core
From	To	
		<ul style="list-style-type: none">-subtle leached upper contact.-increased calcite fracture filling near lower contact.-ground/lost lower contact. <p>Major Rock Forming Minerals: 35% elongate feldspar, phenocryst 40 mm grains; 10% equant hornblende, phenocryst 10 mm grains.</p>
73.66	85.89	<p>BRECCIATED ANDESITE Coded As: 8p;frct,bxt;50D Andesite Flow: feldspar-phyric, maroon to light gray, brecciated. 40% angular breccia averaging 20 mm with a maximum size of 45 mm. 60% clay</p> <ul style="list-style-type: none">-faulted andesite-upper contact maroon grading to lt. gray near lower contact.-heterolithic brecciated fragments.-maroon coloured clay matrix.-fractures filled with calcite and minor kaolinite.-gradual bleached lower contact.-brecciation fine grained at upper contact grading to coarse subangular fragments near the lower contact.
85.89	92.90	<p>TRACHYANDESITE Coded As: 8p;fphy,frct,bxt Andesite Flow: feldspar-phyric, light gray to gray, aphanitic-porphyrific.</p> <ul style="list-style-type: none">-fractured trachyandesite.-fractures and vining of quartz-carbonate.-weak alteration of feldspars to clay.-moderately magnetic.-gradational lower contact. <p>Major Rock Forming Minerals: 20% elongate feldspar, phenocryst 3 mm grains.</p>
	85.89	<p>88.04 ANDESITE FLOW Coded As: 8p Andesite Flow: feldspar-phyric, light gray to dark gray, feldspar phyric.</p> <ul style="list-style-type: none">-no orientation of feldspars.-magnetic groundmass.-sharp lower contact. <p>Major Rock Forming Minerals: 15% elongate feldspar, phenocryst 3 mm grains.</p>
	88.04	<p>90.50 BRECCIATED ANDESITE Coded As: 9B;bxt Andesite Breccia, gray to maroon, brecciated. 35% angular breccia averaging 5 mm with a maximum size of 12 mm.</p> <ul style="list-style-type: none">-feldspar phenocrysts 1-3mm no

Depth (m)		Description Of Core
From	To	
		orientation highly altered to clay. -matrix composed of clay. -non-magnetic. -sharp lower contact.
90.50	92.90	FRACTURED ANDESITE Coded As: 8;frct Andesite Flow, light gray to gray, fractured. -fractured trachyandesite. -feldspar phenocrysts 1-3mm no orientation highly altered. -fractures filled with calcite. -sharp lower contact.
92.90	101.23	ANDESITE DYKE Coded As: 8 Andesite Flow, gray to dark gray, aphanitic. -fine grained intrusive dyke. andesite??? -oxididation in patches. -felpdspar with lesser amounts of quartz. -sharp lower and upper contacts 40 deg to CA.
	95.75	98.17 CLAY FILLED FAULT Coded As: Clay, light gray to gray, fractured.
101.23	117.25	TRACHYANDESITE Coded As: 8p;fphy Andesite Flow: feldspar-phyric, light gray to gray, aphanitic-porphyrific. -trachyandesite. -bladed feldspar phenocrysts 1-5mm. -fine grained grey groundmass. -fractures and vining of quartz-carbonate. -moderate alteration of feldspars to clay. -magnetic -sharp lower contact. Alteration: 5% equant hornblende, phenocryst 3 mm grains. Major Rock Forming Minerals: 15% elongate feldspar, phenocryst 41 mm grains.
	101.23	104.43 TRACHYANDESITE Coded As: 8p Andesite Flow: feldspar-phyric, light gray to gray, aphanitic-porphyrific. -andesite flow. -feldspar phenocrysts 1-3mm no

Depth (m)		Description Of Core
From	To	
		orientation. -unidentified altered mineral replaced by soft yellow mineral (zeolite??). -sharp lower contact.
104.43	105.13	CLAY FAULT Coded As: Clay, gray to maroon, fractured. -bleached andesite fault. -highly fractured. -gradational lower contact.
117.25	121.37	CLAY FILLED FAULT Coded As: clay;50D Clay Fault, gray to green, fractured. -altered andesite to clay fault related??? -remnant feldspar crystals altered to kaolinite. -weak to no magnetism. -sharp lower contact.
121.37	150.29	VESICULATED BASALT Coded As: 21 Basalt or Basaltic Flow, gray to light buff, amygdaloidal. 20% amoeba shaped amygdules averaging 10 mm with a maximum size of 30 mm. -vesiculated to amygduloidal basalt. -quartz, calcite and zeolite infilling of amygdules. -unit cut by numerous faults & qtz-carb veins. -magnetic.
124.05	132.47	CLAY FILLED FAULT Coded As: clay Clay, gray to maroon, fractured. -bleached basaltic fault. -highly fractured & brecciated. -variable degrees of magnetism. -sharp upper & lower contacts.
134.25	146.44	CLAY FILLED FAULT Coded As: clay Clay, gray to maroon, fractured. -bleached basaltic fault. -highly fractured & brecciated. -variable degrees of magnetism. -sharp upper & lower contact.

SAMPLE NUMBER	From: (m)	To: (m)	Interval	Au ppb FA+AA	Ag ppm	Cu ppm	Zn ppm
M695201	38.41	39.71	1.3	<5	<.2	51	86
M695202	96.48	97.98	1.5	<5	<.2	26	74
M695203	122.55	124.05	1.5	<5	<.2	42	154

Hole No.: DDH97-02			Depth: 183.18 m	Horizontal Length:		
Property: ALLIN			Location: 49 KM SOUTH OF HOUSTON			Province: BC
Claim No.: 316463		Reference No.:		Project:		
Grid Name: ALLIN-1		Grid Type (Imperial/Metric): Metric				
Grid North Azimuth Measured Clockwise From True North: 30.000°						
Grid Co-ordinates & Attitude Of Drill Hole Collar:						
Easting: -3,900.00 m		Northing: 2,800.00 m				
Elevation:		Hole Angle: -65.00°				
Hole Direction Measured Clockwise From Grid North: 240.00°						
Hole Direction Measured Clockwise From True North: 270.00°						
Date Drilling Started: 31-JUL-97			Date Finished: 01-AUG-97			
Drilled By: BEAUPRE DRILLING						
Logged By: M.D. Buchanan/D.G. Garratt						
Legend For Core Logging Codes: BC (GENERAL)						
Target Type: ENZYME LEACH			Borehole PEM: No			
Core Size: BQ		Cemented: No				
Casing Depth: 6.10 m		Casing Pulled: Yes				
Water Depth:		Overburden Depth: 2.57 m				
Level:		Section:		Drift:		
NTS Sheet Number: 093L01						
NTS Sheet Name: COLLEYMOUNT						
UTM Grid Zone: 9		UTM Datum: NAD83				
UTM Easting: 684,295.00 m		UTM Northing: 6,005,005.00 m				
Assay Elements:						
AU	AG	CU	ZN			
Data Entry Marked Complete: Yes						

General Comments About Hole

- overburden depth is 2.57m.
- BQ core starts at 4.60m.
- all drill steel recovered.
- casing recovered.
- generally good drilling conditions.
- hole ddh97-02 generally consists of andesite, trachyandesite and basalts.

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Comprehensive Report For Hole DDH97-02

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In Hole Survey Method: Dip Test

<u>Distance (m)</u>	<u>Azimuth</u>	<u>Dip</u>
76.20	0.00	-63.30
124.36	0.00	-63.00
182.27	0.00	-60.30

Depth (m)
From To Description Of Core

0.00 4.60 **BW Casing**
Coded As: bw
BW Casing, , .
-true length of casing is 6.1m.
-bedrock begins at 4.6m.
-overburden composed of glacial clays/till with cobble sized stones of tertiary volcanics.

Coded As:

4.60 41.03 **Feldspatic Andesite**
Coded As: 8p;8m
Andesite Flow: feldspar-phyric, light gray to gray, aphanitic-porphyrific.
-feldspatic andesite
-grey to dark gray aphanitic groundmass.
-moderate amounts of calcite and clay alteration.
-minor chlorite, biotite.
-broken lower contact over 5cm.
Alteration: 5% groundmass chlorite, subhedral 2 mm grains.
Major Rock Forming Minerals: 25% elongate feldspar, phenocryst 2 mm grains; 5% equant hornblende, phenocryst 2 mm grains; trace phenocryst biotite, flake 1 mm grains.

4.60 10.08 **Weathered Andesite**
Coded As: 8p;8m
Andesite Flow: feldspar-phyric, light gray to light brown, weathered.
-moderate alteration of feldspars to kaolinite.
-minor limonitic staining along fractures.
-gradational/subtle lower contact.

23.30 25.32 **Clay Altered Andesite**
Coded As: 8p;8m;50D
Andesite Flow: feldspar-phyric, light gray to gray, friable.
-weakly clay altered andesite.
-weathering of feldspars to kaolinite.
-calcite infilling of fractures.
-subtle upper and lower contacts.

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Comprehensive Report For Hole: DDH97-02

Depth (m)		Description Of Core
From	To	
30.00	32.64	Clay Altered Andesite Coded As: 8p;8m;50D Andesite Flow: feldspar-phyric, light gray to gray, friable. -moderately clay altered andesite. -weathering of feldspars to kaolinite. -calcite veining and infilling of fractures. -minor alteration of hornblende to chlorite. -minor limonitic staining of fractures. -sharp upper contact. -subtle lower contact.
41.03	104.37	<u>Amygdaloidal Basalt</u> Coded As: 21 Basalt or Basaltic Flow, gray to dark gray, amygdaloidal. 10% ovoid amygdules averaging 2 mm with a maximum size of 6 mm. -aomeba shaped amygdules ranging is size from 1-5mm. -infilled with calcite, quartz, and zeolites (mesolite???) -strongly magnetic. -hornblende and minor plagioclase phenocrysts. -aphanitic groundmass. -sharp lower conact @ 65 deg to CA.
43.96	46.27	Brecciated Basalt Coded As: 21;22B Basalt or Basaltic Flow, light green to light gray, brecciated. 75% subangular breccia averaging 20 mm with a maximum size of 60 mm. -bleached brecciated basalt related to faulting??? -feldspar and mafic crystals weathered out. -random calcite veining. -moderate clay alteration. -weakly magnetic. -sharp upper contact, subtle lower contact.
48.30	48.70	Brecciated Basalt Coded As: 21;22B Basalt or Basaltic Flow, light green to light gray, brecciated. 75% subangular breccia averaging 20 mm with a maximum size of 60 mm. -bleached brecciated Basalt related to

Diamond Drill Log

Comprehensive Report For Hole: DDH97-02

Depth (m)		Description Of Core
From	To	
		<i>faulting???</i> <i>-feldspar and mafic crystals weathered out.</i> <i>-calcite veining.</i> <i>-weakly magnetic.</i> <i>-subtle upper contact, sharp lower contact.</i>
49.56	52.16	Brecciated Basalt Coded As: 21;22B Basalt or Basaltic Flow, light green to light gray, brecciated. 75% subangular breccia averaging 20 mm with a maximum size of 60 mm. <i>-bleached brecciated basalt related to faulting???</i> <i>-feldspar and mafic crystals weathered out.</i> <i>-Some areas strongly kaolinized.</i> <i>-friable.</i> <i>-gradual change in groundmass from dark gray to light gray.</i> <i>-calcite veining</i> <i>-weakly magnetic</i> <i>-subtle upper contact, subtle lower contact</i>
57.47	61.07	Brecciated Basalt Coded As: 21;22B Basalt or Basaltic Flow, light green to light gray, brecciated. 75% subangular breccia averaging 10 mm with a maximum size of 30 mm. <i>-bleached brecciated basalt related to faulting???</i> <i>-friable.</i> <i>-10mm wide calcareous layer approx 30mm from lower contact.</i> <i>-weakly magnetic</i> <i>-sharp upper contact, sharp lower contact.</i>
61.59	62.17	Brecciated Basalt Coded As: 21;22B Basalt or Basaltic Flow, light green to light gray, brecciated. 75% subangular breccia averaging 20 mm with a maximum size of 60 mm. <i>-bleached brecciated basalt related to faulting???</i> <i>-feldspar and mafic crystals weathered</i>

Diamond Drill Log
Comprehensive Report For Hole: DDH97-02

Depth (m)		Description Of Core
From	To	
		out. -calcite veining. -moderate clay alteration. -weakly magnetic. -sharp upper contact, sharp lower contact.
63.85	73.48	Volcanic Breccia Coded As: 22B;9B Basaltic Breccia, light gray to dark gray, brecciated. 80% subangular blocks averaging 40 mm with a maximum size of 100 mm. -brecciated blocks of feldspatic andesite and amygdoidal basalt. -slickensides along fractures. -kaolinization of feldspars. -patchy silicification. -upper fault contact (shows slickensides), gradational lower contact becoming increasingly calcareous.
91.56	98.14	Brecciated Feldspatic Andesite Coded As: 8p;9B Andesite Flow: feldspar-phyric, light gray to dark gray, brecciated. 85% angular breccia averaging 30 mm with a maximum size of 100 mm. -brecciated Feldspatic Andesite. -andesite angular-cobble with flow banding. -moderately kaolinized feldspars. -aphanitic groundmass. -calcite infilling of fractures. -sharp upper contact, subtle lower contact.
98.14	102.47	Amygduloidal Basalt Coded As: 21 Basalt or Basaltic Flow, gray to dark gray, amygdaloidal. 5% ovoid amygdules averaging 4 mm with a maximum size of 10 mm. -amygduloidal basalt. -minor feldspar laths. -amygdules infilled with calcite. -moderately magnetic. -subtle upper and lower contacts. Major Rock Forming Minerals: 40% equant hornblende, phenocryst 2 mm grains.

Depth (m)		Description Of Core
From	To	
102.47	104.37	Brecciated Feldspatic Andesite Coded As: 8p;9B Andesite Flow: feldspar-phyric, light gray to dark gray, brecciated. 85% angular breccia averaging 30 mm with a maximum size of 80 mm. -fault-related brecciated feldspatic-andesite. -moderately kaolinized feldspars. -variable magnetism. -subtle upper contact, sharp lower contact.
104.37	111.98	<u>Trachy Andesite</u> Coded As: 8p Andesite Flow: feldspar-phyric, light gray to gray, aphanitic-porphyrific. -trachyandesite. -plagioclase lathes having minor kaolinite alteration. -weakly to moderate magnetism. -sharp lower contact. Major Rock Forming Minerals: 25% elongate feldspar, phenocryst 5 mm grains; 15% equant hornblende, phenocryst 1 mm grains.
104.97	105.34	Mafic Flow Coded As: 5m Mafic Flow: Plagioclase and/or mafic-phyric, dark gray to black, aphanitic. -dark coloured mafic sill/dike -minor elongate Plagioclase phenocrysts within aphanitic groundmass. -strongly magnetic. -sharp upper and lower contacts. Major Rock Forming Minerals: 1% equant feldspar, phenocryst 1 mm grains; 2% equant hornblende, phenocryst 2 mm grains.
111.98	137.20	<u>Feldspatic Andesitic Breccia</u> Coded As: 8;8p;50D;9B Andesite Breccia, light gray to gray, brecciated. 45% angular breccia averaging 20 mm with a maximum size of 60 mm. -brecciated feldspatic andesite. -various sizes of angular to subangular fragments in light-gray to light-green groundmass. -minor kaolinite alteration of feldspars. -weakly magnetic.

Depth (m)		Description Of Core
From	To	
		<ul style="list-style-type: none">-spotty clay alteration.-alteration of footwall at lower contact.-sharp lower contact.
	128.07 128.67	Quartz/Calcite veining Coded As: 40A;40B Vein: carbonate, white to light gray, fractured. <ul style="list-style-type: none">-Zone of Quartz/Calcite veining-Veins irregular between 2-10 mm in width
137.20	154.04	Feldspatic Andesite Coded As: 8p;8m Andesite Flow: feldspar-phyric, light gray to gray, phyric. <ul style="list-style-type: none">-feldspatic andesite.-light gray to dark gray aphanitic groundmass.-moderate amounts of calcite and clay alteration.-1-3mm feldspar laths, 1mm pyroxene (hornblende crystals).-minor chlorite, biotite.-sharp lower contact. Major Rock Forming Minerals: 30% equant feldspar, phenocryst 1 mm grains; 15% equant hornblende, phenocryst 1 mm grains.
	148.94 150.05	Quartz/Calcite veining Coded As: 40A;40B Vein: carbonate, white to light gray, fractured. <ul style="list-style-type: none">-Zone of Quartz/Calcite veining-Veins irregular between 1-10 mm in width-Calcite > Quartz
154.04	183.18	Amygduloidal Basalt Coded As: 21 Basalt or Basaltic Flow, gray to dark gray, amygdaloidal. 10% ovoid amygdules averaging 1 mm with a maximum size of 10 mm. <ul style="list-style-type: none">-amygduloidal basalt.-oval-shaped amygdules filled with calcite.-calcite crystals along fracture planes.-minor calcite veining throughout.-strongly magnetic.

SAMPLE NUMBER	From: (m)	To: (m)	Interval	Au ppb FA+AA	Ag ppm	Cu ppm	Zn ppm
M695204	43.96	45.46	1.5	<5	<.2	89	78
M695205	65.40	66.90	1.5	<5	<.2	43	88
M695206	66.90	68.40	1.5	<5	<.2	43	80
M695207	148.94	150.44	1.5	20	0.2	17	92
M695208	150.44	151.94	1.5	10	<.2	38	122

Comprehensive Report For Hole DDH97-03

Hole No.: DDH97-03			Depth: 139.60 m	Horizontal Length:
Property: ALLIN			Location: 49 KM SOUTH OF HOUSTON	
			Province: BC	
Claim No.: 316463	Reference No.:	Project:		
Grid Name: ALLIN-1	Grid Type (Imperial/Metric): Metric			
Grid North Azimuth Measured Clockwise From True North: 30.000°				
Grid Co-ordinates & Attitude Of Drill Hole Collar:				
Easting: -4,900.00 m		Northing: 3,625.00 m		
Elevation:		Hole Angle: -65.00°		
Hole Direction Measured Clockwise From Grid North: 240.00°				
Hole Direction Measured Clockwise From True North: 270.00°				
Date Drilling Started: 02-AUG-97				
Date Finished: 04-AUG-97				
Drilled By: BEAUPRE DRILLING				
Logged By: M.D. Buchanan/D.G. Garratt				
Legend For Core Logging Codes: BC (GENERAL)				
Target Type: IP			Borehole PEM: No	
Core Size: BQ		Cemented: No		
Casing Depth: 18.23 m		Casing Pulled: Yes		
Water Depth:		Overburden Depth: 7.70 m		
Level:	Section:	Drift:		
NTS Sheet Number: 093L01				
NTS Sheet Name: COLLEYMOUNT				
UTM Grid Zone: 9 UTM Datum: NAD83				
UTM Easting: 683,765.00 m UTM Northing: 6,006,310.00 m				
Assay Elements:				
AU	AG	CU	ZN	
Data Entry Marked Complete: Yes				

General Comments About Hole

- hole ddh97-03 consists of andesite becoming basalt near the bottem of the hole.
- overburden 7.70 meters deep.
- hole abandoned due to poor drilling conditions.
- approximately 91 meters of drill steel lost down hole.
- all drill casing recovered.

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Comprehensive Report For Hole DDH97-03

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In Hole Survey Method: Dip Test

<u>Distance (m)</u>	<u>Azimuth</u>	<u>Dip</u>
76.20	0.00	-65.90

Diamond Drill Log

Comprehensive Report For Hole: DDH97-03

Depth (m)		Description Of Core
From	To	
0.00	12.75	BW CASING Coded As: bw BW Casing, , . -BQ Casing -overburden composed of glacial till. -till 30% - Andesite subangular cobbles 15% - Basalt subangular cobbles 55% - Other (clay/sand) -hole cased to 18.28m.
12.75	53.06	ANDESITE FLOW Coded As: 8p;8 Andesite Flow: feldspar-phyric, brown to gray, feldspar phyric. 30% elongate phenocrysts averaging 5 mm with a maximum size of 10 mm. 10% altered phenocrysts averaging 3 mm with a maximum size of 10 mm. -primarily andesite flow with minor trachyandesite textures. -phenocrysts of feldspar, hornblend, & magnetite in an aphanitic gray groundmass. -moderate alteration of feldspar to kaolinite and epidote. -calcite vining and infilling of vesicles common. -weakly magnetic. -sharp lower contact.
	12.75	13.61 Andesite Flow Coded As: 8 Andesite Flow, gray to light green, weathered. 30% equant phenocrysts averaging 5 mm with a maximum size of 10 mm. -weathered andesite flow. -minor limonitic staining. -feldspars altered to kaolinite and epidote. -calcite infilling of weathered crystals 1 to 10mm wide. -calcite and epidote fracture fillings. -weakly magnetic. -sharp lower contact.
	13.61	13.81 Trachyandesite Coded As: 8p Andesite Flow: feldspar-phyric, light gray to gray, feldspar phyric. 25% elongate phenocrysts averaging 5 mm with a maximum size of 13 mm. -andesite flow (Trachyandesite) -lath shaped plagioclase crystals in aphanitic groundmass.

Diamond Drill Log

Comprehensive Report For Hole: DDH97-03

Depth (m)		Description Of Core
From	To	
		<ul style="list-style-type: none">-mafic minerals consist of hornblend & magnetite.-slightly magnetic.-sharp upper contact.-subtle lower contact.
13.81	15.13	Andesite Flow Coded As: 8 Andesite Flow, gray to light green, feldspar phyric. 27% equant phenocrysts averaging 2 mm with a maximum size of 10 mm. <ul style="list-style-type: none">-altered andesite flow.-feldspars altered to kaolinite and epidote.-calcite and epidote fracture fillings.-weakly magnetic.-sharp lower contact.-subtle upper contact.
15.13	21.25	TRACHYANDESITE Coded As: 8p Andesite Flow: feldspar-phyric, gray to dark gray, trachytoid. 25% elongate phenocrysts averaging 5 mm with a maximum size of 10 mm. 20% equant phenocrysts averaging 2 mm with a maximum size of 5 mm. <ul style="list-style-type: none">-trachyandesite-lath shaped feldspars with subparallel orientation in gray coloured aphanitic groundmass.-unidentifiable phenocrysts of weathered yellowish mineral.-calcite veining 4mm wide CA=90 degrees.-magnetic.-sharp upper and subtle lower contacts.
21.25	28.08	CLAY ALTERED ANDESITE Coded As: 8 Andesite Flow, maroon to light green, friable. <ul style="list-style-type: none">-clay altered andesite flow.-strong alteration of feldspars to kaolinite and epidote.-calcite infilling of weathered crystals 1 to 10mm wide.-minor calcite filled amygdules.-non-magnetic.-subtle upper contact.-sharp lower contact.

Depth (m)		Description Of Core
From	To	
28.08	33.70	Andesite Flow Coded As: 8 Andesite Flow, gray to light green, feldspar phyric. 25% equant phenocrysts averaging 2 mm with a maximum size of 10 mm. -altered andesite flow. -feldspars altered to kaolinite and epidote. -calcite and epidote fracture fillings. -weakly magnetic. -sharp lower contact. -subtle upper contact.
33.70	34.55	TRACHYANDESITE Coded As: 8p Andesite Flow: feldspar-phyric, gray to dark gray, trachytoid. 25% elongate phenocrysts averaging 5 mm with a maximum size of 10 mm. 20% equant phenocrysts averaging 2 mm with a maximum size of 5 mm. -trachyandesite -lath shaped feldspars with subparallel orientation in gray coloured aphanitic groundmass. -unidentifiable phenocrysts of weathered yellowish mineral. -calcite veining 4mm wide CA=90 degrees. -magnetic -sharp upper and subtle lower contacts.
34.55	35.72	Andesite Flow Coded As: 8 Andesite Flow, gray to light green, altered. 30% equant phenocrysts averaging 5 mm with a maximum size of 10 mm. -altered andesite flow. -feldspars altered to kaolinite -calcite infilling of weathered crystals 1 to 10mm wide. -calcite fracture fillings. -weakly magnetic. -sharp upper contact. -gradational lower contact.

Depth (m)		Description Of Core
From	To	
35.72	38.88	TRACHYANDESITE Coded As: 8p Andesite Flow: feldspar-phyric, gray to dark gray, trachytoid. 25% elongate phenocrysts averaging 5 mm. with a maximum size of 10 mm. 20% equant phenocrysts averaging 2 mm with a maximum size of 5 mm. -trachyandesite -lath shaped feldspars with subparallel orientation in gray coloured aphanitic groundmass. -unidentifiable phenocrysts of weathered yellowish mineral. -magnetic -gradational upper and sharp lower contacts.
53.06	94.93	CLAY ALTERATION Coded As: 50D Alteration: clay, light gray to dark gray, altered. fine silt (< 1/16 mm) -clay altered andesite likely chemical weathering. -feldspars, hornblend & other mafics weathered to clay. -occasional intact fragments feldspar phyric andesite. -minor brecciation. -non-magnetic. -upper and lower contacts diffuse & gradational. Coded As:
71.42	85.88	Andesite Flow Coded As: 8 Andesite Flow, light gray to dark gray, altered. -strongly altered andesite. -consists mostly of 1-7mm loose broken-up andesite fragments. Intact andesite fragments are quite friable. -calcite infilling present along with carbonate infilling within fractures. -plagioclase is usually distinguishable as 1-3mm wide weathered grains, sometimes plag occurs as 1-6mm phenocrysts within intact andesite portions. -epidote alteration evident? -non-magnetic. -gradual upper, subtle lower contacts.
85.88	94.93	Andesite Flow

Depth (m)		Description Of Core
From	To	
		<p>Coded As: 8</p> <p>Andesite Flow, gray to light green, feldspar phyric. 27% equant phenocrysts averaging 2 mm with a maximum size of 10 mm.</p> <ul style="list-style-type: none">-altered andesite flow.-feldspars altered to kaolinite and epidote.-calcite and epidote fracture fillings.-weakly magnetic.-sharp lower contact.-subtle upper contact.
94.93	109.49	<p>ANDESITE FLOW</p> <p>Coded As: 8p;8</p> <p>Andesite Flow: feldspar-phyric, light gray to dark gray, feldspar phyric. 30% elongate phenocrysts averaging 4 mm with a maximum size of 12 mm. 10% altered phenocrysts averaging 3 mm with a maximum size of 10 mm.</p> <ul style="list-style-type: none">- Primarily andesite flow with minor trachyandesite textures.- Phenocrysts of feldspar, hornblend, & magnetite in an aphanitic gray groundmass.- Moderate alteration of bladed feldspars to kaolinite and epidote.- Calcite vining and infilling of vesicles common.- Magnetic.- sharp upper contact.- subtle lower contact.
	99.09	<p>102.42 Feldspar Phyric Andesite Flow</p> <p>Coded As: 8p</p> <p>Andesite Flow: feldspar-phyric, light gray to light gray, trachytoid. 20% elongate phenocrysts averaging 2 mm with a maximum size of 8 mm.</p> <ul style="list-style-type: none">-aphanitic gray groundmass.-lath-shaped plagioclase phenocrysts.-1-3mm elongate pyroxenes?-some carbonate infilling.-sharp upper, sharp lower contacts.
	102.42	<p>108.65 TRACHYANDESITE</p> <p>Coded As: 8p</p> <p>Andesite Flow: feldspar-phyric, gray to dark gray, trachytoid. 25% elongate phenocrysts averaging 5 mm with a maximum size of 10 mm. 20% equant phenocrysts averaging 2 mm with a maximum size of 5 mm.</p>

Diamond Drill Log

Comprehensive Report For Hole: DDH97-03

Depth (m)		Description Of Core
From	To	
		<ul style="list-style-type: none">-trachyandesite-lath shaped feldspars with subparallel orientation in gray coloured aphanitic groundmass.-unidentifiable phenocrysts of weathered yellowish mineral.-magnetic.-sharp upper and subtle lower contacts.
109.49	119.39	CLAY ALTERATION Coded As: 50D Alteration: clay, light gray to dark gray, altered. fine silt (< 1/16 mm) <ul style="list-style-type: none">-strongly clay altered andesite.-feldspars, hornblend & other mafics weathered to clay.-extremely friable with minor zones of brecciation.-weakly magnetic.-irregular calcite veining (up to 10mm thick) CA=60 degrees.-upper and lower contacts diffuse & gradational.
	110.84	Brecciated Andesite Coded As: 9B Andesite Breccia, light gray to light purple, breccia. 85% angular breccia averaging 3 mm with a maximum size of 20 mm. <ul style="list-style-type: none">-some carbonate infilling.-breccia fragments posses various lithologies, mostly felsic with trace mafics.-1-3mm lath-shaped plagioclase distinguishable.-sublte lower and upper contacts.
	116.51	Feldspar-Phyric Andesite Flow Coded As: 8p Andesite Flow: feldspar-phyric, gray to light gray, altered. 20% elongate phenocrysts averaging 2 mm with a maximum size of 8 mm. <ul style="list-style-type: none">-calcite infilling of fractures.-mostly very highly altered/weathered and very friable.-unaltered, intact portions, contain plagioclase phenocrysts.-non-magnetic.-sublte upper, sharp lower contacts.

Diamond Drill Log

Comprehensive Report For Hole: DDH97-03

Depth (m)		Description Of Core
From	To	

119.39 139.60 **Basalt**

Coded As: 21

Basalt or Basaltic Flow, light gray to light brown, amygdaloidal. 15% amoeba shaped amygdules averaging 5 mm with a maximum size of 30 mm. 5% ovoid vesicles averaging 1 mm with a maximum size of 3 mm. 10% elongate phenocrysts averaging 3 mm with a maximum size of 5 mm.

-vesiculated amygdaloidal basalt.

-phenocrysts composed of feldspars, hornblend & other mafic crystals (magnetite??)

-vesicles and amygdules concentrated near the upper contact & decrease in number towards the EOH.

-amygdules amoeba shaped at upper contact & become elongated towards the EOH.

-calcite veining & infilling along fractures 30 to 70 degrees to CA.

-gradational upper contact.

SAMPLE NUMBER	From: (m)	To: (m)	Interval	Au ppb FA+AA	Ag ppm	Cu ppm	Zn ppm
M695209	102.64	105.35	2.7	<5	<.2	55	90
M695210	46.54	49.54	3.0	<5	<.2	34	60

Diamond Drill Log

Comprehensive Report For Hole DDH97-04

Hole No.: DDH97-04	Depth: 210.01 m	Horizontal Length:
Property: ALLIN	Location: 49 KM SOUTHEAST OF HOUSTON	Province: BC
Claim No.: 316462	Reference No.:	Project:
Grid Name: ALLIN-1	Grid Type (Imperial/Metric): Metric	
Grid North Azimuth Measured Clockwise From True North: 30.000°		
Grid Co-ordinates & Attitude Of Drill Hole Collar:		
Easting: -4,325.00 m	Northing: 4,200.00 m	
Elevation:	Hole Angle: -75.00°	
Hole Direction Measured Clockwise From Grid North: 60.00°		
Hole Direction Measured Clockwise From True North: 90.00°		
Date Drilling Started: 05-AUG-97 Date Finished: 08-AUG-97		
Drilled By: BEAUPRE DIAMOND DRILLING		
Logged By: M.D. Buchanan		
Legend For Core Logging Codes: BC (GENERAL)		
Target Type: ENZYME LEACH	Borehole PEM: No	
Core Size: BQ	Cemented: No	
Casing Depth: 66.29 m	Casing Pulled: Yes	
Water Depth:	Overburden Depth: 64.03 m	
Level:	Section:	Drift:
NTS Sheet Number: 093L01		
NTS Sheet Name: COLLEYMOUNT		
UTM Grid Zone: 9 UTM Datum: NAD83		
UTM Easting: 684,673.00 m UTM Northing: 6,006,437.00 m		
Assay Elements:		
AU	AG	CU ZN
Data Entry Marked Complete: Yes		

General Comments About Hole

- BW casing from 0.00 to 65.23m.
- BQ core starts at 66.24m.
- BQ core ends at 210.01m.
- casing pulled.
- all drill steel recovered.
- hole ddh97-04 generally consists of andesite becoming basalt near the bottem of the hole.

18-DEC-97
09:51:39

Hudson Bay Exploration And Development Co. Ltd.
Diamond Drill Log
Comprehensive Report For Hole DDH97-04

In Hole Survey Method: Dip Test

<u>Distance (m)</u>	<u>Azimuth</u>	<u>Dip</u>
60.96	0.00	-76.00
179.21	0.00	-77.00

Depth (m)		Description Of Core	
From	To		
0.00	66.29	<u>Glacial Till</u> Coded As: gt Glacial Till, , . -glacial till. -till composed of pebble to cobble sized clasts. -35% andesite. -55% intrusive. -10% basalt. -hole cased with bw casing to 65.23 meters.	
66.29	100.98	<u>Feldspar Phyric Andesite</u> Coded As: 8p Andesite Flow: feldspar-phyric, gray to dark gray, phyric. 30% elongate phenocrysts averaging 3 mm with a maximum size of 5 mm. -aphanitic groundmass. -minor oxidation along fractures. -minor calcite. -minor vesicles 1mm round filled with hematite. -magnetic. -gradational lower contact. Major Rock Forming Minerals: 30% elongate feldspar, euhedral 5 mm grains; 25% equant hornblende, euhedral 4 mm grains.	
100.98	112.02	<u>FELDSPAR PHYRIC ANDESITE</u> Coded As: 8p Andesite Flow: feldspar-phyric, gray to dark gray, trachytoid. -aphanitic groundmass. -magnetic. -hornblend altering to chlorite. -minor alteration of feldspar to kaolinite. -gradational lower contacts. Major Rock Forming Minerals: 35% elongate feldspar, euhedral 5 mm grains.	
	104.70	107.70	<u>FFELDSPAR PHYRIC ANDESITE</u> Coded As: 8p Andesite Flow: feldspar-phyric, red to maroon, weathered. 30% elongate phenocrysts averaging 5 mm with a maximum size of 6 mm. -strongly altered. -feldspars altered to kaolinite. -clay along upper and lower contacts. -gradational lower contact.
112.02	143.79	<u>AMYGDALOIDAL BASALT</u> Coded As: 21 Basalt or Basaltic Flow, dark gray to black,	

Depth (m)		Description Of Core
From	To	
		amygdaloidal. 5% elongate amygdules averaging 10 mm with a maximum size of 15 mm. -amygdules filled with quartz and calcite. -aphanitic groundmass. -fractures 45-CA -difuse lower contact. Major Rock Forming Minerals: 5% equant feldspar, euhedral 3 mm grains; 30% equant hornblende, euhedral 3 mm grains.
143.79	179.12	AMYGDALOIDAL BASALT Coded As: 21 Basalt or Basaltic Flow, gray to brown, amygdaloidal. 5% elongate amygdules averaging 10 mm with a maximum size of 15 mm. -amygdules ovoid shaped filled with quartz, calcite and zeolite. -aphanitic groundmass. -minor fractures 60-CA, filled with calcite. -brecciated clay altered lower contact. Major Rock Forming Minerals: 2% elongate feldspar, euhedral 3 mm grains; 30% equant hornblende, euhedral 3 mm grains.
179.12	210.01	CLAY ALTERED ZONE Coded As: clay Clay, light gray to gray, friable. -highly weathered/altered basalt to clay. -minor brecciation in sections where basalts still competent. -non-magnetic. -minor calcite and quartz veining. -major fractures @ 75 deg to CA filled with calcite.
	180.10 185.62	Basalt Coded As: 21 Basalt or Basaltic Flow, dark gray to black, aphanitic. -aphanitic groundmass. -minor amygdules filled with calcite. -magnetic. -fracture 75 degrees to CA. -brecciated lower contact.
	200.80 204.94	Basalt Coded As: 21 Basalt or Basaltic Flow, dark gray to black, aphanitic. -aphanitic groundmass. -minor amygdules filled with calcite. -magnetic.

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Diamond Drill Log
Comprehensive Report For Hole: DDH97-04

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Depth (m)		Description Of Core
From	To	

-fracture 75 degrees to CA.
-brecciated lower contact.

SAMPLE NUMBER	From: (m)	To: (m)	Interval	Au ppb FA+AA	Ag ppm	Cu ppm	Zn ppm
M695613	91.20	94.20	3.0	<5	<.2	35	92
M695614	128.72	131.72	3.0	<5	<.2	32	82
M695615	180.10	183.10	3.0	<5	<.2	27	140

Hole No.: DDH97-05			Depth: 265.48 m	Horizontal Length:		
Property: ALLIN			Location: 49 KM SOUTHEAST OF HOUSTON			Province: BC
Claim No.: 339852		Reference No.:		Project:		
Grid Name: ALLIN 1		Grid Type (Imperial/Metric): Metric				
Grid North Azimuth Measured Clockwise From True North: 30.000°						
Grid Co-ordinates & Attitude Of Drill Hole Collar:						
Easting: -3,790.00 m		Northing: 4,200.00 m				
Elevation:		Hole Angle: -90.00°				
Hole Direction Measured Clockwise From Grid North:						
Hole Direction Measured Clockwise From True North:						
Date Drilling Started: 09-AUG-97			Date Finished: 13-AUG-97			
Drilled By: BEAUPRE DIAMOND DRILLING						
Logged By: M.D. Buchanan						
Legend For Core Logging Codes: BC (GENERAL)						
Target Type: ENZYME LEACH			Borehole PEM: No			
Core Size: BQ		Cemented: No				
Casing Depth: 51.82 m		Casing Pulled: Yes				
Water Depth:		Overburden Depth: 51.82 m				
Level:	Section:	Drift:				
NTS Sheet Number: 093L01						
NTS Sheet Name: COLLEYMOUNT						
UTM Grid Zone: 9		UTM Datum: NAD83				
UTM Easting: 685,037.00 m		UTM Northing: 6,006,221.00 m				
Assay Elements:						
AU	AG	CU	ZN			
Data Entry Marked Complete: Yes						

General Comments About Hole

- BW casing from 0.00-51.82m.
- BQ core starts at 47.82m.
- BQ core ends at 265.48.
- casing pulled.
- all drill steel recovered.
- hole ddh97-05 consists of primarily of feldspar phyric andesites which become weathered/altered near the bottem of the hole.

18-DEC-97
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Comprehensive Report For Hole DDH97-05

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In Hole Survey Method: Dip Test

<u>Distance (m)</u>	<u>Azimuth</u>	<u>Dip</u>
63.70	0.00	-90.00
127.71	0.00	-89.00
191.72	0.00	-88.90
264.87	0.00	-89.50

Depth (m)		Description Of Core
From	To	
0.00	47.82	<u>BW CASING</u> Coded As: bw;gt,clay,blds BW Casing, , . -cobble sized andesites and intrusives. -bedrock at 47.82m
47.82	75.59	<u>FELDSPAR PHYRIC ANDESITES</u> Coded As: 8p Andesite Flow: feldspar-phyric, dark gray to black, feldspar phyric. 10% felsic fragments phenocrysts averaging 7 mm with a maximum size of 11 mm. -hornblend to chlorite alteration. -moderately magnetic (magnetite?). -subhedral feldspar phenocrysts. -diffuse crystal edges with no orientation. -wear alteration of feldspars. -minor calcite veining/infilling at 73.30. Major Rock Forming Minerals: 10% elongate feldspar, phenocryst; 5% equant hornblende, phenocryst; 3% biotite, phenocryst.
75.59	88.93	<u>FELDSPAR PHYRIC ANDESITES</u> Coded As: 8p Andesite Flow: feldspar-phyric, light red to light gray, feldspar phyric. 10% felsic fragments phenocrysts averaging 7 mm with a maximum size of 11 mm. -subhedral to euhedral quartz. -groundmass is oxidized. -broken upper contact. -gradational lower contact. Major Rock Forming Minerals: 10% elongate feldspar, phenocryst; 5% biotite, phenocryst.
88.93	116.72	<u>FELDSPAR PHYRIC ANDESITE</u> Coded As: 8p Andesite Flow: feldspar-phyric, dark gray to dark green, brecciated. 10% felsic fragments phenocrysts averaging 7 mm with a maximum size of 11 mm. 10% mafic fragments phenocrysts -epidote alteration in homogenous matrix. -oxidation on fractures. -magnetic. -broken lower contact. Mineralization: trace disseminated pyrite; trace disseminated pyrrhotite. Major Rock Forming Minerals: 10% elongate feldspar, phenocryst; 5% equant hornblende, phenocryst; 5% biotite, phenocryst.
116.72	141.05	<u>CLAY ALTERED ANDESITE</u> Coded As: 9B

Depth (m)		Description Of Core
From	To	
		Andesite Breccia, red to gray, brecciated. -nonmagnetic clay. -feldspars altered to kaolonite. -minor cobbel sized fragments. -weakly altered in comparison to adjoining units. -fragments subangular to angular. -broken lower contact. -unit grades from red to gray.
141.05	209.50	FELDSPAR PHYRIC ANDESITE Coded As: 8p Andesite Flow: feldspar-phyric, dark red to dark gray, vesicular. 30% felsic fragments phenocrysts averaging 3 mm with a maximum size of 7 mm. 10% mafic fragments phenocrysts averaging 2 mm with a maximum size of 4 mm. 20% rounded vesicles averaging 1 mm with a maximum size of 4 mm. -non to weakly magnetic. -minor epidote on fractures. -aphanitic groundmass. -amoeba shaped amygdules. -10-15% calcite zeolites. -mesolite infilling of zeolites?? -gradational lower contact. Mineralization: 2% disseminated pyrite. Major Rock Forming Minerals: 30% elongate feldspar, phenocryst; 10% phenocryst hornblende, euhedral.
151.00	156.60	altered feldspar phyric andesite Coded As: 8p Andesite Flow: feldspar-phyric, light gray to gray, vesicular. -kaolonite alteration. -crystal boundaries gone. -non magnetic. -minor chlorite. -zeolite infilling. -minor calcite. -broken/lost upper and lower contacts. Mineralization: trace disseminated pyrite. Major Rock Forming Minerals: 25% elongate feldspar, phenocryst.
158.90	163.23	altered feldspar phyric andesite Coded As: 8p Andesite Flow: feldspar-phyric, light gray to gray, vesicular. -kaolonite alteration. -crystal boundaries gone.

Depth (m)		Description Of Core
From	To	
		<ul style="list-style-type: none">-non magnetic.-minor chlorite.-zeolite infilling.-minor calcite.-broken/lost upper and lower contacts. <p>Mineralization: trace disseminated pyrite.</p> <p>Major Rock Forming Minerals: 25% elongate feldspar, phenocryst.</p>
165.30	170.30	<p>altered feldspar phyric andesite Coded As: 8p Andesite Flow: feldspar-phyric, light gray to gray, vesicular.</p> <ul style="list-style-type: none">-kaolonite alteration.-crystal boundaries gone.-non magnetic.-minor chlorite.-zeolite infilling.-minor calcite.-broken/lost upper and lower contacts. <p>Mineralization: trace disseminated pyrite.</p> <p>Major Rock Forming Minerals: 25% elongate feldspar, phenocryst.</p>
193.85	200.40	<p>altered feldspar phyric andesite Coded As: 8p Andesite Flow: feldspar-phyric, light gray to gray, vesicular.</p> <ul style="list-style-type: none">-kaolonite alteration.-crystal boundaries gone.-non magnetic.-minor chlorite.-zeolite infilling.-minor calcite.-increased clay content relative to adjoining units.-broken/lost upper and lower contacts. <p>Mineralization: trace disseminated pyrite.</p>
209.50	254.20	<p>CLAY Coded As: clay Clay, gray to dark red, .</p> <ul style="list-style-type: none">-almost all structure is lost/altered.-nonmagnetic.-gradational upper and lower contacts.
229.14	230.74	<p>feldspar phyric andesite Coded As: 8p</p>

Depth (m)		Description Of Core
From	To	
		Andesite Flow: feldspar-phyric, gray to light brown, trachytoid. 30% felsic fragments phenocrysts averaging 10 mm with a maximum size of 25 mm. -spherical amygdules with zeolite/illmenite. -magnetic. calcite vein at 40° cax. -gradational upper and lower contacts. Major Rock Forming Minerals: 5% equant feldspar, phenocryst; 25% elongate feldspar, phenocryst.
244.24	246.67	feldspar phyric andesite Coded As: 8p Andesite Flow: feldspar-phyric, gray to light brown, trachytoid. 30% felsic fragments phenocrysts averaging 10 mm with a maximum size of 25 mm. -spherical amygdules with zeolite/illmenite. -magnetic. calcite vein at 40° cax. -gradational upper and lower contacts. Major Rock Forming Minerals: 5% equant feldspar, phenocryst; 25% elongate feldspar, phenocryst.
254.20	265.48	<u>WEATHERED FELDSPAR PHYRIC ANDESITE</u> Coded As: 8p Andesite Flow: feldspar-phyric, dark gray to black, phyric. felsic fragments phenocrysts averaging 10 mm with a maximum size of 15 mm. -unit is weathered. -amoeba shaped vesicles. -magnetic. -gradational upper contact.

SAMPLE NUMBER	From: (m)	To: (m)	Interval	Au ppb FA+AA	Ag ppm	Cu ppm	Zn ppm
M695608	77.00	80.00	3.0	<5	<.2	37	68
M695609	105.60	108.60	3.0	<5	<.2	40	66
M695610	202.50	205.50	3.0	<5	<.2	24	130

Hole No.: DDH97-06			Depth: 304.80 m	Horizontal Length:		
Property: ALLIN			Location: 49 KM SOUTHEAST OF HOUSTON			Province: BC
Claim No.: 339853		Reference No.:		Project:		
Grid Name: ALLIN-1		Grid Type (Imperial/Metric): Metric				
Grid North Azimuth Measured Clockwise From True North: 30.000°						
Grid Co-ordinates & Attitude Of Drill Hole Collar:						
Easting: -4,400.00 m		Northing: 4,620.00 m				
Elevation:		Hole Angle: -90.00°				
Hole Direction Measured Clockwise From Grid North:						
Hole Direction Measured Clockwise From True North:						
Date Drilling Started: 14-AUG-97			Date Finished: 21-AUG-97			
Drilled By: BEAUPRE DIAMOND DRILLING						
Logged By: M.D. BUCHANAN						
Legend For Core Logging Codes: BC (GENERAL)						
Target Type: ENZYME LEACH			Borehole PEM: No			
Core Size: NQ		Cemented: No				
Casing Depth: 77.22 m		Casing Pulled: Yes				
Water Depth:		Overburden Depth: 77.22 m				
Level:		Section:		Drift:		
NTS Sheet Number: 093L01						
NTS Sheet Name: COLLEYMOUNT						
UTM Grid Zone: 9		UTM Datum: NAD83				
UTM Easting: 684,723.00 m		UTM Northing: 6,006,935.00 m				
Assay Elements:						
AU		AG		CU ZN		
Data Entry Marked Complete: Yes						

General Comments About Hole

- NW casing 0.00-48.77m.
- NQ core from 48.77-304.80m.
- all casing recovered.
- all drill steel recovered.
- hole ddh97-06 consists of dark to leached colored andesites.
- 1-5% disseminated pyrite from 178.60-196.70m.

19-DEC-97
07:17:43

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Diamond Drill Log
Comprehensive Report For Hole DDH97-06

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In Hole Survey Method: Dip Test

<u>Distance (m)</u>	<u>Azimuth</u>	<u>Dip</u>
152.40	0.00	-88.50
303.89	0.00	-85.50

Depth (m)		Description Of Core
From	To	
0.00	48.77	NW CASING Coded As: nw;gt NW Casing, , . -glacial till
0.00	48.77	glacial till Coded As: gt Glacial Till, , . -grain size varies from pebbles to cobbles. -40% andesite. -10% basalt. -50% other?
48.77	77.22	GLACIAL TILL Coded As: gt;mud,sand,clay Glacial Till, , . -overburden composed of mud,sand,clay,glacial till. -various compositions.
48.77	70.04	clay Coded As: clay Clay, light brown to dark brown, . -minor fragments. -structureless.
70.04	77.22	basal till Coded As: gt Glacial Till, , . -subrounded to subangular pebbles to cobbles, -no matrix sand. -andesite 30%. -intrusives 20%. -vesicular basalt 5%. -other 45%?
77.22	89.07	FELDSPATHIC ANDESITE Coded As: 8p Andesite Flow: feldspar-phyric, light gray to dark gray, phytic. -feldspars have no orientation and show alteration rings. -minor alteration of feldspars. -minor feldspar recrystallization/twinning. -moderately magnetic. -minor calcite veining(1-2mm) -gradational (brecciated) lower contact. -20° core angle. Major Rock Forming Minerals: 30% elongate feldspar, phenocryst 10 mm grains; 10% elongate

Depth (m)		Description Of Core
From	To	
		hornblende, phenocryst 02 mm grains; 10% elongate biotite, phenocryst 02 mm grains.
	77.22 85.14	feldspathic andesite Coded As: 8p Andesite Flow: feldspar-phyric, light gray to light orange, phyric. -limonitic staining along fractures around feldspars. -fractured. -gradational lower contact. Major Rock Forming Minerals: 30% elongate feldspar, phenocryst 08 mm grains; 10% elongate hornblende, phenocryst 02 mm grains; 10% biotite, phenocryst 02 mm grains.
89.07	102.23	<u>CLAY ALTERED ANDESITE</u> Coded As: 8p Andesite Flow: feldspar-phyric, gray to light red, phyric. -weakly clay altered. -minor brecciation near upper contact. -becoming vesicular towards lower contact. -gradational upper and lower contacts. Major Rock Forming Minerals: 30% elongate feldspar, phenocryst 10 mm grains; 10% elongate hornblende, phenocryst 02 mm grains; 10% elongate biotite, phenocryst 02 mm grains.
102.23	110.00	<u>FELDSPATHIC ANDESITE</u> Coded As: 8p Andesite Flow: feldspar-phyric, light gray to dark gray, phyric. -moderate alteration of feldspars to kaolinite. -moderate to strong alteration/weathering of hornblends. -minor vesiculation. -chlorite?? -biotite uniformly distributed throughout. -gradational upper contact. -diffuse lower contact (becoming pink in color). Major Rock Forming Minerals: 30% elongate feldspar, phenocryst 10 mm grains; 10% elongate hornblende, phenocryst 02 mm grains; 10% elongate biotite, phenocryst 02 mm grains.
110.00	121.70	<u>CLAY ALTERED ANDESITE</u> Coded As: 8p Andesite Flow: feldspar-phyric, light pink to light brown, phyric. -weakly magnetic sections.

Depth (m)		Description Of Core
From	To	
		<p>moderate chlorite alteration along fractures and slickensides. -patchy zones of no alteration. -strong alteration of feldspars. -clay matrix. -brecciated near upper and lower contacts. Major Rock Forming Minerals: 30% elongate feldspar, phenocryst 10 mm grains; 10% elongate hornblende, phenocryst 02 mm grains; 10% elongate biotite, phenocryst 02 mm grains.</p>
121.70	124.36	<p><u>BRECCIATED ANDESITE</u> Coded As: 9B Andesite Breccia, light pink to light brown, . -sub angular cobbles to block fragments in a chloritic groundmass (5-100mm). -alteration of feldspars. -irregular calcite veining. -sharp upper contact with clay. -lost lower contact.</p>
124.36	137.25	<p><u>BRECCIATED PHYRIC ANDESITE</u> Coded As: 9B Andesite Breccia, brown to light pink, . -clasts are subangular to angular, approxiamtely 10-80mm. -zoned/weathered kaolonized feldspars. -calcite veining 5-15mm width, with a core angle of 60°. -slickensides atr 70°. -non magnetic. -gradational upper contact. -gradational (subtle) lower contact. Major Rock Forming Minerals: 15% biotite, phenocryst 01 mm grains.</p>
137.25	172.06	<p><u>FELDSPAR PHYRIC ANDESITE FLOW</u> Coded As: 8p Andesite Flow: feldspar-phyric, light gray to gray, phyric. -strongly magnetic. -calcite veining 1mm width, at 55°. -indication of sub parallel flow to feldspars. -gradational upper contact. gradational to sharp lower contact with clay unit. Major Rock Forming Minerals: 45% feldspar, phenocryst 02 mm grains; 20% biotite, phenocryst 02 mm grains.</p>
172.06	178.60	<p><u>CLAY</u> Coded As: 50D Alteration: clay, red to light green, . -non magnetic.</p>

Depth (m)		<u>Description Of Core</u>
From	To	
		<ul style="list-style-type: none">-remnant feldspars.-minor chlorite/epidote alteration.-sharp upper and lower contacts.-red towards upper contact, green towards lower contact.
178.60	199.66	<u>VESICULATED ANDESITE (AMYGDALOIDAL?)</u> Coded As: 8m Andesite Flow: mafic-phyric, gray to dark gray, vesicular. <ul style="list-style-type: none">-magnetic.-black zeolites 2-3mm comprizing 35-40% of rock volume.-minor hornblend and calcite.-disseminated pyrite throughout.-massive infilling in breccia-feldspar phenocrysts near lower contact.-amygdaloidal and vesicular near upper contact.-gradational upper contact.-sharp lower conatct. Mineralization: 5% disseminated pyrite. Major Rock Forming Minerals: 30% feldspar, phenocryst 03 mm grains.
199.66	225.98	<u>CLAY ALTERED ANDESITE</u> Coded As: 8;50D Andesite Flow, green to red, . <ul style="list-style-type: none">-strctureless except for occassional clasts of weathered andesites.-irregular calcite veins.-non magnetic.-chemical weathering.-sharp upper contact.-gradational to brecciated lower contact.
225.98	242.06	<u>BRECCIATED ALTERED ANDESITE</u> Coded As: 9B Andesite Breccia, light green to light gray, brecciated. <ul style="list-style-type: none">-matrix of sulphides and chlorite.-fined grained pyrite. Major Rock Forming Minerals: 70% feldspar, phenocryst 99 mm grains.
242.06	279.49	<u>FELDSPATHIC ANDESITE</u> Coded As: 8p Andesite Flow: feldspar-phyric, light brown to gray, phyric. <ul style="list-style-type: none">-aphanitic groundmass.-non magnetic.-minor disseminated pyrite and epidote.-minor calcite veining.-colorless, layered mineral, fracture filling, non

Depth (m)		Description Of Core
From	To	
		<i>elastic.</i> <i>-gradational upper contact.</i> <i>-gradational lower contact.</i> Major Rock Forming Minerals: 20% elongate feldspar, phenocryst 10 mm grains; 10% elongate hornblende, phenocryst 02 mm grains; 10% elongate magnetite, phenocryst 02 mm grains.
274.30	279.49	brecciated feldspar phyric andesite Coded As: 8p,bxt Andesite Flow: feldspar-phyric, light gray to gray, . <i>-clasts are angular to sub angular.</i> <i>-alteration of feldspars to kaolonite.</i> <i>-non magnetic.</i> <i>-sharp upper contact.</i> <i>-gradational lower contact.</i>
279.49	304.80	<u>ALTERED FELDSPAR PHYRIC ANDESITE</u> Coded As: 8p Andesite Flow: feldspar-phyric, light gray to gray, . <i>-matrix of clay, friable.</i> <i>-non magnetic.</i> <i>-structureless.</i> Major Rock Forming Minerals: 20% equant feldspar, phenocryst 02 mm grains.

SAMPLE NUMBER	From: (m)	To: (m)	Interval	Au ppb FA+AA	Ag ppm	Cu ppm	Zn ppm
M695211	181.47	184.47	3.0	<5	<.2	52	120
M695212	187.89	190.89	3.0	<5	<.2	44	94
M695213	190.89	193.89	3.0	<5	<.2	46	124
M695214	193.89	196.89	3.0	<5	<.2	36	90
M695217	226.06	229.06	3.0	<5	<.2	39	64
M695218	229.06	232.06	3.0	<5	<.2	30	54
M695219	232.06	235.06	3.0	<5	<.2	41	56
M695220	235.06	238.06	3.0	<5	<.2	44	42
M695221	245.06	248.06	3.0	<5	<.2	35	64
M695222	248.06	250.20	2.1	<5	<.2	26	134
M695223	258.32	261.32	3.0	<5	<.2	25	106
M695224	261.32	264.32	3.0	<5	<.2	28	76
M695225	263.11	266.11	3.0	<5	<.2	38	82
M695226	266.11	269.11	3.0	<5	<.2	40	94
M695227	269.11	272.11	3.0	<5	<.2	32	84

Hole No.: DDH97-07 Depth: 219.15 m Horizontal Length:		
Property: ALLIN Location: 49 KM SOUTHEAST OF HOUSTON Province: BC		
Claim No.: 316462	Reference No.:	Project:
Grid Name: ALLIN-1	Grid Type (Imperial/Metric): Metric	
Grid North Azimuth Measured Clockwise From True North: 30.000°		
Grid Co-ordinates & Attitude Of Drill Hole Collar: Easting: -5,100.00 m Northing: 4,100.00 m Elevation: Hole Angle: -90.00° Hole Direction Measured Clockwise From Grid North: Hole Direction Measured Clockwise From True North:		
Date Drilling Started: 21-AUG-97 Date Finished: 24-AUG-97 Drilled By: BEAUPRE DIAMOND DRILLING		
Logged By: M. D. Buchanan Legend For Core Logging Codes: BC (GENERAL)		
Target Type: ENZYME LEACH		Borehole PEM: No
Core Size: NQ	Cemented: No	
Casing Depth: 27.43 m	Casing Pulled: Yes	
Water Depth:	Overburden Depth: 27.43 m	
Level:	Section:	Drift:
NTS Sheet Number: 093L01 NTS Sheet Name: COLLEYMOUNT UTM Grid Zone: 9 UTM Datum: NAD83 UTM Easting: 683,956.00 m UTM Northing: 6,006,733.00 m		
Assay Elements: AU AG CU ZN		
Data Entry Marked Complete: Yes		

General Comments About Hole

- NW casing from 0.00 to 27.43m.
- NQ core starts at 27.43m.
- all casing removed.
- all drill steel recovered.
- hole ddh97-07 consists of andesites which become increasingly vesiculated and vuggy near the bottem of the hole.

18-DEC-97
10:02:08

Hudson Bay Exploration And Development Co. Ltd.
Diamond Drill Log
Comprehensive Report For Hole DDH97-07

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In Hole Survey Method: Dip Test

<u>Distance (m)</u>	<u>Azimuth</u>	<u>Dip</u>
109.42	0.00	-87.00
216.10	0.00	-87.50

Depth (m)		Description Of Core
From	To	
0.00	27.43	<u>NW CASING</u> Coded As: nw NW Casing, , . -overburden composed of glacial till. -estimated 70% silt, sand & clay. -20% feldspathic andesite pebbles & cobbles -10% intrusives pebbles and cobbles.
27.43	41.85	<u>WEATHERED ANDESITE</u> Coded As: 8 Andesite Flow, buff to light brown, weathered. -pervasive iron oxide staining. -completely kaolinized. -friable. -non-magnetic. -diffuse lower contact.
41.85	56.13	<u>FELDSPAR PHYRIC ANDESITE</u> Coded As: 8;8p Andesite Flow: feldspar-phyric, light gray to gray, altered. -feldspars altered to kaolinite. -some calcite infilling. -much of the structure lost. -minor pyrite disseminated and along fractures. -sharp lower contact. Mineralization: 2% disseminated pyrite, cubic 1 mm grains. Major Rock Forming Minerals: 30% elongate feldspar, euhedral 4 mm grains.
56.13	65.00	<u>BRECCIATED ANDESITE</u> Coded As: 8;8p;9B Andesite Flow: feldspar-phyric, brown to gray, feldspar phyric. -subangular brecciated andesite clasts ranging in size from 20 to 65 mm. -feldspars altered to kaolinite. -some calcite infilling and minor veins. -10% vesicles 2-5mm in diameter. -sharp lower contact. Major Rock Forming Minerals: 30% elongate feldspar, euhedral 6 mm grains.
65.00	72.55	<u>WEATHER ANDESITE</u> Coded As: 8p Andesite Flow, light gray to gray, altered. 25% elongate phenocrysts averaging 7 mm with a maximum size of 10 mm. -altered andesite. -feldspars altered to kaolinite.

Depth (m)		Description Of Core
From	To	
		<ul style="list-style-type: none">-aphanitic groundmass.-friable.-non-magnetic.-gradational lower contact.
72.55	82.12	<u>BASALT</u> Coded As: 21 Basalt or Basaltic Flow, light gray to light brown, altered. 10% amoeba shaped amygdules averaging 2 mm with a maximum size of 6 mm. <ul style="list-style-type: none">-basaltic to andesitic composition.-minor alteration of feldspars to kaolinite.-calcite veining and infilling.-magnetic.-amygdules filled with calcite and yellowish zeolite.-gradational lower contact. Major Rock Forming Minerals: 20% elongate feldspar, euhedral 4- mm grains; 15% equant feldspar, euhedral 2 mm grains.
82.12	95.00	<u>WEATHER ANDESITE</u> Coded As: 8p Andesite Flow, light gray to gray, altered. 25% elongate phenocrysts averaging 7 mm with a maximum size of 10 mm. <ul style="list-style-type: none">-altered andesite/basalt.-strong weathering of feldspars to kaolinite.-minor epidote and chlorite.-friable.-weakly magnetic.-gradational lower contact.
95.00	101.47	<u>FELDSPAR PHYRIC ANDESITE</u> Coded As: 8p Andesite Flow: feldspar-phyric, light brown to light gray, feldspar phyric. 25% elongate phenocrysts averaging 3 mm with a maximum size of 4 mm. <ul style="list-style-type: none">-minor alteration of feldspars.-minor vesiculation.-iron oxide oxidation and calcite along fractures.-fractures 45 degrees to CA.-weakly magnetic.-sharp lower contact.
101.47	109.47	<u>WEATHERED ANDESITE</u> Coded As: 8 Andesite Flow, red to light gray, altered. <ul style="list-style-type: none">-strongly altered andesite.-feldspars altered to kaolinite.-aphanitic groundmass.-irregular calcite veining 60 degrees to CA.

Depth (m)		Description Of Core
From	To	
		<ul style="list-style-type: none">-friable.-non-magnetic.-sharp lower contact.
109.47	123.26	<p>AMYGDALOIDAL BASALT/ANDESITE Coded As: 21 Basalt or Basaltic Flow, light gray to gray, altered. 35% amoeba shaped amygdules averaging 12 mm with a maximum size of 15 mm.</p> <ul style="list-style-type: none">-basaltic to andesitic composition.-complete alteration of feldspars to kaolinite.-calcite veining and infilling.-non-magnetic.-amygdules filled with calcite and quartz.-gradational lower contact. <p>Major Rock Forming Minerals: 20% elongate feldspar, euhedral 4- mm grains; 15% equant feldspar, euhedral 2 mm grains.</p>
123.26	131.57	<p>AMYGDALOIDAL ANDESITE Coded As: 8;8p Andesite Flow, gray to dark gray, altered. 15% amoeba shaped amygdules averaging 7 mm with a maximum size of 10 mm.</p> <ul style="list-style-type: none">-andesitic composition.-complete alteration of feldspars to kaolinite.-aphanitic groundmass.-minor calcite veining.-magnetic.-amygdules filled with calcite, quartz and chlorite.-gradational lower contact. <p>Major Rock Forming Minerals: 15% elongate feldspar, euhedral 6 mm grains.</p>
131.57	169.46	<p>AMYGDALOIDAL BASALT/ANDESITE Coded As: 21 Basalt or Basaltic Flow, gray to dark gray, altered. 35% amoeba shaped amygdules averaging 4 mm with a maximum size of 5 mm.</p> <ul style="list-style-type: none">-basaltic to andesitic composition.-complete alteration of feldspars to kaolinite.-calcite veining and infilling.-spotty magnetism.-amygdules filled with calcite and quartz.-gradational lower contact. <p>Major Rock Forming Minerals: 10% elongate feldspar, euhedral 3 mm grains.</p>
	142.23 146.20	<p>AMYGDALOIDAL ANDESITE Coded As: 8 Andesite Flow, gray to dark gray,</p>

Depth (m)		Description Of Core
From	To	
		amygdaloidal. 10% amoeba shaped amygdules averaging 10 mm with a maximum size of 15 mm. -weathered. -aphanitic groundmass. -minor calcite/quartz veining -sharp upper and lower contacts.
169.46	219.15	BLEACHED ANDESITE Coded As: 8 Andesite Flow, light gray to buff, amygdaloidal. 10% amoeba shaped amygdules averaging 3 mm with a maximum size of 10 mm. 20% elongate phenocrysts averaging 5 mm with a maximum size of 10 mm. -altered kaolinized andesite. -alteration feldspars to kaolinite. -calcite veining and fracture fillings 15 degrees to CA. -spotty magnetism. -amygdules filled with calcite and quartz. -iron oxide staining along fractures. -gradational lower contact. Major Rock Forming Minerals: 10% elongate feldspar, euhedral 3 mm grains.
191.20	194.60	CLAY ALTERED ANDESITE Coded As: 8 Andesite Flow, gray to dark gray, aphanitic. -clay rich aphanitic groundmass. -trace to 1% disseminated pyrite cubes. -chloritic alteration around pyrite. -non-magnetic. -friable. -diffuse upper and lower contacts.
200.79	204.30	CLAY ALTERED ANDESITE Coded As: 8 Andesite Flow, gray to dark gray, aphanitic. -clay rich aphanitic groundmass. -trace to 1% disseminated pyrite cubes. -chloritic alteration around pyrite. -non-magnetic. -friable. -sharp upper and lower contacts.
206.71	209.71	CLAY ALTERED ANDESITE Coded As: 8 Andesite Flow, gray to dark gray, aphanitic. -clay rich aphanitic groundmass.

Depth (m)		Description Of Core
From	To	
		-trace to 1% disseminated pyrite cubes. -chloritic alteration around pyrite. -non-magnetic. -friable. -gradational upper and lower contacts.
211.26	217.26	CLAY ALTERED ANDESITE Coded As: 8 Andesite Flow, gray to dark gray, aphanitic. -clay rich aphanitic groundmass. -trace to 1% disseminated pyrite cubes. -chloritic alteration around pyrite. -non-magnetic. -3 to 5mm wide calcite veins. -friable. -gradational upper and lower contacts.

SAMPLE NUMBER	From: (m)	To: (m)	Interval	Au ppb FA+AA	Ag ppm	Cu ppm	Zn ppm
M695700	170.38	173.38	3.0	<5	<.2	34	80
M695601	173.38	176.38	3.0	<5	<.2	56	86
M695602	176.38	179.38	3.0	<5	<.2	51	78
M695603	179.38	182.38	3.0	<5	<.2	47	116
M695604	191.20	194.20	3.0	<5	<.2	42	62
M695605	200.79	203.79	3.0	<5	<.2	28	38
M695606	203.79	206.71	2.9	<5	<.2	39	106
M695607	206.71	209.71	3.0	<5	<.2	36	68

Diamond Drill Log
Comprehensive Report For Hole DDH97-08

Hole No.: DDH97-08			Depth: 188.06 m			Horizontal Length:		
Property: ALLIN								
Location: 49 KM SOUTHEAST OF HOUSTON						Province: BC		
Claim No.: 316462			Reference No.:			Project:		
Grid Name: ALLIN-1			Grid Type (Imperial/Metric): Metric					
Grid North Azimuth Measured Clockwise From True North: 30.000°								
Grid Co-ordinates & Attitude Of Drill Hole Collar:								
Easting: -5,300.00 m			Northing: 4,800.00 m					
Elevation:			Hole Angle: -90.00°					
Hole Direction Measured Clockwise From Grid North:								
Hole Direction Measured Clockwise From True North:								
Date Drilling Started: 25-AUG-97 Date Finished: 29-AUG-97								
Drilled By: BEAUPRE DIAMOND DRILLING								
Logged By: M.D. Buchanan								
Legend For Core Logging Codes: BC (GENERAL)								
Target Type: ENZYME LEACH						Borehole PEM: No		
Core Size: NQ			Cemented: No					
Casing Depth: 39.62 m			Casing Pulled: Yes					
Water Depth:			Overburden Depth: 85.35 m					
Level:			Section:			Drift:		
NTS Sheet Number: 093L01								
NTS Sheet Name: COLLEYMOUNT								
UTM Grid Zone: 9			UTM Datum: NAD83					
UTM Easting: 684,091.00 m			UTM Northing: 6,007,432.00 m					
Assay Elements:								
AU		AG		CU		ZN		
Data Entry Marked Complete: Yes								

General Comments About Hole

- NW casing to 39.62 meters.
- overburden 85.35 meters.
- all casing removed.
- all drill steel recovered.
- hole ddh97-08 consists of brecciated and altered andesites.

19-DEC-97
07:18:03

Hudson Bay Exploration And Development Co. Ltd.
Diamond Drill Log
Comprehensive Report For Hole DDH97-08

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In Hole Survey Method: Dip Test

<u>Distance (m)</u>	<u>Azimuth</u>	<u>Dip</u>
91.44	0.00	-89.00
188.06	0.00	-86.00

Depth (m)		Description Of Core	
From	To		
0.00	85.35	<u>OVERBURDEN</u> Coded As: gt Glacial Till, , . -galcial overbuden. -pebble to cobble sized clasts of iron oxide stained intrusives and andesites in a clay matrix. -hole cased down to 39.62 meters using NW casing.	
85.35	109.42	<u>ANDESITE BRECCIA</u> Coded As: 9B;8 Andesite Breccia, light gray to black, brecciated. 30% angular breccia averaging 100 mm with a maximum size of 200 mm. -brecciated andesite with weathered clay matrix. -most of the rock is bleached. -remnant feldspar crystals highly weathered. -flow orientation 70 degrees to CA. -friable. -minor calcite veining in some clasts. -non-magnetic. -lower contact lost.	
109.42	119.64	<u>ALTERED ANDESITE</u> Coded As: 8p Andesite Flow: feldspar-phyric, dark gray to black, altered. 35% elongate phenocrysts averaging 3 mm with a maximum size of 5 mm. -highly weathered and fractured feldspar phyric andesite. -feldspars altered to kaolinite. -aphanitic clay rich groundmass. -friable. -non-magnetic. -broken lower contact.	
119.64	153.47	<u>ANDESITE BRECCIA</u> Coded As: 9B;8 Andesite Breccia, light gray to dark gray, brecciated. 30% angular breccia averaging 75 mm with a maximum size of 150 mm. -brecciated andesite with weathered clay matrix. -variable degrees of brecciation. -clasts range from subangular to angular. -pervasive clay alteration around feldspars. -minor silicification near lower contact -non-magnetic. -sharp lower contact.	
	125.89	128.00	<u>ALTERED ANDESITE</u> Coded As: 8 Andesite Flow: feldspar-phyric, light red to gray, phyric. 30% elongate

Depth (m)		Description Of Core
From	To	
		phenocrysts averaging 4 mm with a maximum size of 5 mm. -altered andesite. -aphanitic groundmass -feldspars altered to kaolinite. -non-magnetic. -broken upper contact. -gradational lower contact. Major Rock Forming Minerals: 30% elongate feldspar, euhedral 7 mm grains.
135.13	136.95	ALTERED ANDESITE Coded As: 8 Andesite Flow: feldspar-phyric, light red to gray, phyric. 30% elongate phenocrysts averaging 4 mm with a maximum size of 5 mm. -altered andesite. -aphanitic groundmass -feldspars altered to kaolinite. -non-magnetic. -gradational upper and lower contact. Major Rock Forming Minerals: 30% elongate feldspar, euhedral 7 mm grains.
140.29	140.73	ALTERED ANDESITE Coded As: 8 Andesite Flow: feldspar-phyric, light red to gray, phyric. 30% elongate phenocrysts averaging 4 mm with a maximum size of 5 mm. -altered andesite. -aphanitic groundmass -feldspars altered to kaolinite. -non-magnetic. -gradational upper and lower contact. Major Rock Forming Minerals: 30% elongate feldspar, euhedral 7 mm grains.
153.47	188.06	ANDESITE BRECCIA Coded As: 9B;8 Andesite Breccia, buff to gray, brecciated. 35% angular breccia averaging 30 mm with a maximum size of 50 mm. -brecciated siliceous andesite. -variable degrees of brecciation. -clasts are primarily angular. -clay alteration around feldspars.

Depth (m)
From To Description Of Core

-aphanitic groundmass.
-minor vesiculation.
-1 to 5% disseminated cubic pyrite.
-fracture fillings of calcite.
-non-magnetic.

Mineralization: 3% disseminated pyrite,
cubic 2 mm grains.

Major Rock Forming Minerals: 20% elongate
feldspar, euhedral 5 mm grains; 15% equant biotite, flake
3 mm grains.

157.00 158.52 **ALTERED ANDESITE**

Coded As: 8

Andesite Flow: feldspar-phyric, light
red to gray, phyric. 30% elongate
phenocrysts averaging 4 mm with a maximum
size of 5 mm.

-altered andesite.
-aphanitic groundmass
-feldspars altered to kaolinite.
-non-magnetic.
-gradational upper and lower contact.

Major Rock Forming Minerals:
30% elongate feldspar, euhedral 7 mm
grains.

160.32 164.03 **ALTERED ANDESITE**

Coded As: 8

Andesite Flow: feldspar-phyric, light
red to gray, phyric. 30% elongate
phenocrysts averaging 4 mm with a maximum
size of 5 mm.

-altered andesite.
-aphanitic groundmass
-feldspars altered to kaolinite.
-non-magnetic.
-gradational upper and lower contact.

Major Rock Forming Minerals:
30% elongate feldspar, euhedral 7 mm
grains.

SAMPLE NUMBER	From: (m)	To: (m)	Interval	Au ppb FA+AA	Ag ppm	Cu ppm	Zn ppm
M695629	167.37	170.37	3.0	<5	<.2	44	102
M695630	170.37	173.37	3.0	<5	<.2	42	64
M695631	173.37	176.37	3.0	<5	<.2	30	58
M695632	176.37	179.37	3.0	<5	<.2	39	80

Hole No.: DDH97-09 Depth: 212.14 m Horizontal Length:		
Property: ALLIN Location: 49 KM SOUTHEAST OF HOUSTON Province: BC		
Claim No.: 316462	Reference No.:	Project:
Grid Name: ALLIN-1	Grid Type (Imperial/Metric): Metric	
Grid North Azimuth Measured Clockwise From True North: 30.000°		
Grid Co-ordinates & Attitude Of Drill Hole Collar:		
Easting: -6,000.00 m	Northing: 4,800.00 m	
Elevation:	Hole Angle: -75.00°	
Hole Direction Measured Clockwise From Grid North: 330.00°		
Hole Direction Measured Clockwise From True North: 300.00°		
Date Drilling Started: 30-AUG-97 Date Finished: 02-SEP-97		
Drilled By: BEAUPRE DIAMOND DRILLING		
Logged By: M.D. Buchanan		
Legend For Core Logging Codes: BC (GENERAL)		
Target Type: ENZYME LEACH		Borehole PEM: No
Core Size: NQ	Cemented: No	
Casing Depth: 19.08 m	Casing Pulled: Yes	
Water Depth:	Overburden Depth: 4.94 m	
Level:	Section:	Drift:
NTS Sheet Number: 093L01		
NTS Sheet Name: COLLEYMOUNT		
UTM Grid Zone: 9	UTM Datum: NAD83	
UTM Easting: 683,477.00 m	UTM Northing: 6,007,783.00 m	
Assay Elements:		
AU	AG	CU ZN
Data Entry Marked Complete: Yes		

General Comments About Hole

- NW casing to 19.08 meters.
- overburden 19.08 meters thick.
- casing removed.
- all drill steel recovered.
- hole ddh97-09 consists alternating thicknesses of ash flow and andesites.

19-DEC-97
07:18:25

Hudson Bay Exploration And Development Co. Ltd.
Diamond Drill Log
Comprehensive Report For Hole DDH97-09

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In Hole Survey Method: Dip Test

<u>Distance (m)</u>	<u>Azimuth</u>	<u>Dip</u>
91.44	0.00	-77.00
212.14	0.00	-73.50

Depth (m)		Description Of Core
From	To	
0.00	19.08	OVERBURDEN GLACIAL TILL Coded As: gt Glacial Till, , . -glacial till consisting of subangular pebble to cobble sized clasts in a clay rich matrix. -hole cased with NW casing to 19.08 meters.
19.08	61.87	ASH FLOW Coded As: af Ash Flow, light gray to gray, bedded. ash -fine grained mottled ash flow. -crude bedding??/flow textures at 42 degrees to CA. -oxidized along fractures. -moderate amounts of chloritic alteration around sulphides. -minor amygdules filled with calcite, -1 to 5% disseminated pyrite and pyrrohtite throughout. -magnetic. -broken lower contact. Mineralization: 3% disseminated pyrite, anhedral 2 mm grains; 3% disseminated pyrrohtite, anhedral 2 mm grains.
	25.34	25.76 FELDSPAR PHYRIC ANDESITE Coded As: 8p Andesite Flow: feldspar-phyric, light gray to gray, feldspar phyric. 25% equant phenocrysts averaging 3 mm with a maximum size of 5 mm. -andesitic flow?? -aphanitic groundmass. -magnetic. -1 to 3% disseminated pyrite and pyrrohtite. -gradational upper and lower contacts. Mineralization: 1% disseminated pyrite, anhedral 2 mm grains; 1% disseminated pyrrohtite, anhedral 2 mm grains.
	54.29	55.27 ANDESITIC DYKE Coded As: 8 Andesite Flow, gray to dark gray, phyric. 15% equant phenocrysts averaging 3 mm with a maximum size of 5 mm. -andesitic dyke. -aphanitic groundmass. -calcite veining and infilling. -magnetic. -sharp chilled upper and lower contacts

Depth (m)
From To Description Of Core

(CA - 50 degrees).

61.87 76.54 **ANDESITE FLOW**

Coded As: 8m

Andesite Flow: mafic-phyric, light gray to gray, phyric.

-mafic phyric andesite.

-aphanitic groundmass.

-magnetic.

-disseminated 1 to 3mm blebs of pyrite and pyrrohtite along fractures with calcite.

-sharp/broken lower contact @ 15 degrees to CA.

Mineralization: 1% blebs pyrite, none noted
3 mm grains.

Major Rock Forming Minerals: 10% equant feldspar, euhedral 3 mm grains; 25% replacement chlorite, subhedral 5 mm grains.

76.54 85.00 **ASH FLOW**

Coded As: af

Ash Flow, light gray to gray, mottled. crystal tuff

-fine grained mottled ash flow.

-moderate amounts of fine grained chlorite alteration around sulphides.

-5% to 8% disseminated pyrite and pyrrohtite in mottled patches.

-magnetic.

-sharp lower contact @ 80 degrees to CA.

Mineralization: 3% disseminated pyrite, anhedral 2 mm grains; 5% disseminated pyrrohtite, anhedral 2 mm grains.

78.94 79.62 **DACITE FLOW/DYKE**

Coded As: 10

Dacite Flow, gray to greenish light gray, phyric.

-aphanitic groundmass.

-moderate chloritic alteration.

-moderately magnetic.

-sharp lower contact @ 15 degrees to CA.

Mineralization: 3% disseminated pyrrohtite, euhedral 2 mm grains; 3% disseminated pyrite, euhedral 2 mm grains.

Major Rock Forming Minerals:
10% disseminated chlorite, flake 2 mm grains; 5% vug controlled quartz, subhedral 4 mm grains; 5% elongate feldspar, euhedral 2 mm grains.

Depth (m)		Description Of Core
From	To	
83.41	84.10	DACITE FLOW/DYKE Coded As: 10 Dacite Flow, gray to greenish light gray, phyrlic. -aphanitic groundmass. -moderate chloritic alteration. -moderately magnetic. -broken lower contact. Mineralization: 3% disseminated pyrrhotite, euhedral 2 mm grains; 3% disseminated pyrite, euhedral 2 mm grains. Major Rock Forming Minerals: 10% disseminated chlorite, flake 2 mm grains; 5% elongate feldspar, euhedral 2 mm grains.
85.00	103.58	ANDESITE Coded As: cfp CROWDED FELDSPAR PHYRIC ANDESITE, light gray to gray, leached. -aphanitic groundmass. -magnetic. -numerous amygdules filled with calcite, pyrite, and pyrrhotite. -alteration of hornblende to chlorite. sharp lower contact 30 degrees to CA. Mineralization: 8% disseminated pyrite, subhedral 7 mm grains; 2% disseminated pyrrhotite, subhedral 5 mm grains. Major Rock Forming Minerals: 25% equant feldspar, euhedral 7 mm grains.
103.58	112.80	ANDESITE FLOW Coded As: 8m Andesite Flow: mafic-phyric, light gray to gray, phyrlic. -mafic phyric andesite. -aphanitic groundmass. -some small calcite filled vesicles. -magnetic. -disseminated 1 to 3mm blebs of pyrite and pyrrhotite along fractures with calcite. -sharp lower contact @ 60 degrees to CA. Major Rock Forming Minerals: 10% equant feldspar, euhedral 3 mm grains.
112.80	113.60	ANDESITE Coded As: cfp CROWDED FELDSPAR PHYRIC ANDESITE, light gray to gray,

Depth (m)		Description Of Core
From	To	
		feldspar phyrlic. 20% elongate phenocrysts averaging 5 mm with a maximum size of 10 mm. -aphanitic groundmass. -non-magnetic. -alteration of hornblende to chlorite. -sharp lower contact. Major Rock Forming Minerals: 25% equant feldspar, euhedral 7 mm grains.
113.60	156.36	ASH FLOW Coded As: af Ash Flow, light gray to gray, bedded. ash -fine grained mottled ash flow. -bedding/flow textures at 43 degrees to CA. -3-5% anhedral to subhedral blebs and disseminations of pyrite and pyrrohtite. -moderate amounts of chloritic alteration around sulphides. -minor amygdules filled with calcite. -moderate amounts of silica in patches. -magnetic. -sharp lower contact. Mineralization: 3% disseminated pyrite, anhedral 2 mm grains; 3% disseminated pyrrhotite, anhedral 2 mm grains.
		118.57 124.86 ASHFLOW TUFF Coded As: af Ash Flow, buff to gray, mottled. -lapilli to block sized clasts within ash. -mottled aphanitic groundmass. -many lapilli replaced with pyrrhotite. -magnetic. -sharp lower contact. Mineralization: 5% blebs pyrrhotite, rounded 3 mm grains.
		124.86 126.13 ASHFLOW TUFF Coded As: af Ash Flow, gray to dark gray, aphanitic. 10% equant phenocrysts averaging 2 mm with a maximum size of 5 mm. -thinly bedded ash. -aphanitic groundmass. -few fragments. -minor actinolite. -moderately magnetic. -gradational lower contact. Mineralization: 1%

Depth (m)		Description Of Core
From	To	
		disseminated pyrrhotite, none noted 1 mm grains.
156.36	180.69	ANDESITE Coded As: cfp CROWDED FELDSPAR PHYRIC ANDESITE, light gray to gray, phyric. -aphanitic groundmass. -magnetic. -numerous amygdules filled with calcite, pyrite, and pyrrhotite. -alteration of hornblende to chlorite. -chlorite along fractures associated with pyrrhotite and pyrite. -sharp broken lower contact. Mineralization: 1% disseminated pyrite, subhedral 2 mm grains; 1% disseminated pyrrhotite, subhedral 2 mm grains. Major Rock Forming Minerals: 30% elongate feldspar, euhedral 3 mm grains; 20% equant actinolite, euhedral 4 mm grains.
180.69	205.41	ASH FLOW Coded As: af Ash Flow, light gray to light purple, mottled. ash -fine grained mottled ash flow. -moderate amounts of chloritic alteration around sulphides. -minor amygdules filled with calcite, -1 to 5% disseminated pyrite and pyrrhotite throughout. -concentrations of pyrrhotite in 10 to 20mm blebs. -magnetic. -broken lower contact. Mineralization: 3% disseminated pyrite, anhedral 2 mm grains; 3% disseminated pyrrhotite, anhedral 2 mm grains.
189.44	190.10	ASHFLOW TUFF Coded As: af Ash Flow, light gray to gray, bedded. -thinly bedded ash flow. -bedding 60 degrees to CA. -alternating 1 to 3mm light and dark bands/layers. -aphanitic groundmass. -magnetic. -brecciated gradational lower contact. Mineralization: 3%

Depth (m)		Description Of Core
From	To	
		disseminated pyrrhotite, laminated 1 mm grains.
197.90	200.56	DACITE FLOW/DYKE Coded As: 10 Dacite Flow, gray to dark gray, phyric. -aphanitic groundmass. -moderate chloritic alteration. -chlorite occurs as anhedral replacements. -minor 2-4mm spherical vesicles/amygdules filled with calcite. -magnetic. -sharp upper and lower contacts @30 degrees to CA. Major Rock Forming Minerals: 5% disseminated chlorite, anhedral 2 mm grains.
205.41	212.14	DACITE FLOW Coded As: 10p Dacite Flow: feldspar-phyric, gray to dark gray, phyric. -feldspar phyric dacite flow. -flow banding 49-50 degrees to CA. -stretched elongate pyrite/pyrrhotite blebs 2-4mm wide 10-20mm long. -calcite along fractures and associated with sulphides. -weakly magnetic. Mineralization: 2% blebs pyrrhotite, none noted 3 mm grains. Major Rock Forming Minerals: 15% elongate feldspar, euhedral 3 mm grains.

SAMPLE NUMBER	From: (m)	To: (m)	Interval	Au ppb FA+AA	Ag ppm	Cu ppm	Zn ppm
M695230	25.75	26.75	1.0	<5	<.2	11	58
M695231	26.75	27.75	1.0	<5	<.2	13	62
M695232	27.75	28.75	1.0	<5	<.2	11	52
M695233	28.75	29.75	1.0	<5	<.2	20	74
M695234	29.75	30.75	1.0	<5	<.2	12	56
M695235	30.75	31.75	1.0	<5	<.2	18	46
M695236	31.75	32.75	1.0	<5	<.2	38	58
M695237	32.75	33.75	1.0	<5	<.2	39	58
M695238	33.75	34.75	1.0	<5	<.2	37	68
M695239	34.75	35.75	1.0	<5	<.2	33	66
M695240	35.75	36.75	1.0	<5	<.2	37	128
M695241	36.75	37.75	1.0	<5	<.2	29	52
M695242	37.75	38.75	1.0	<5	<.2	31	168
M695243	38.75	39.75	1.0	<5	<.2	32	58
M695244	39.75	40.75	1.0	<5	<.2	33	86
M695245	40.75	41.75	1.0	<5	<.2	41	54
M695246	41.75	42.75	1.0	<5	<.2	39	50
M695247	42.75	43.75	1.0	<5	<.2	38	54
M695248	43.75	44.75	1.0	<5	<.2	30	50
M695249	44.75	45.75	1.0	<5	<.2	40	66
M695651	45.75	46.75	1.0	<5	<.2	39	54
M695652	46.75	47.75	1.0	<5	<.2	44	114
M695653	47.75	48.75	1.0	<5	<.2	41	52
M695654	48.75	49.75	1.0	<5	<.2	39	54
M695655	49.75	50.75	1.0	<5	<.2	56	76
M695656	50.75	51.75	1.0	<5	<.2	34	38
M695657	51.75	52.75	1.0	<5	<.2	38	48
M695658	52.75	53.75	1.0	<5	<.2	35	56
M695659	53.75	54.75	1.0	<5	<.2	39	62
M695660	54.75	55.75	1.0	<5	<.2	30	88
M695661	55.75	56.75	1.0	<5	<.2	48	58
M695662	56.75	57.75	1.0	<5	<.2	26	62
M695663	57.75	58.65	0.9	<5	<.2	34	78
M695664	58.65	59.65	1.0	<5	<.2	30	62
M695665	59.65	60.65	1.0	<5	<.2	32	50
M695666	60.65	61.65	1.0	<5	<.2	39	56
M695667	64.00	65.00	1.0	<5	<.2	35	92
M695668	69.65	70.65	1.0	<5	<.2	35	92
M695669	75.15	76.15	1.0	<5	<.2	39	66
M695670	76.62	77.62	1.0	<5	<.2	41	78
M695671	85.78	88.78	3.0	<5	<.2	39	92
M695672	88.78	91.78	3.0	<5	<.2	41	74
M695673	91.78	94.78	3.0	<5	<.2	41	142
M695674	94.78	96.78	2.0	<5	<.2	49	112
M695677	113.60	115.60	2.0	<5	<.2	46	62
M695678	115.60	117.60	2.0	10	<.2	37	114
M695679	117.60	119.60	2.0	<5	<.2	31	70
M695680	119.60	121.60	2.0	<5	<.2	38	126
M695681	121.60	123.60	2.0	<5	<.2	38	108

SAMPLE NUMBER	From: (m)	To: (m)	Interval	Au ppb FA+AA	Ag ppm	Cu ppm	Zn ppm
M695682	123.60	126.20	2.6	<5	<.2	39	100
M695683	126.20	129.20	3.0	<5	<.2	39	72
M695684	129.20	132.20	3.0	<5	<.2	40	94
M695685	132.20	135.20	3.0	<5	<.2	41	48
M695686	135.20	138.20	3.0	<5	<.2	39	96
M695687	138.20	141.20	3.0	<5	<.2	32	80
M695688	141.20	144.20	3.0	<5	<.2	35	88
M695689	144.20	147.20	3.0	<5	<.2	37	130
M695690	147.20	150.20	3.0	<5	<.2	31	110
M695691	150.20	153.20	3.0	<5	<.2	25	70
M695692	153.20	156.20	3.0	<5	<.2	39	110
M695695	180.70	183.70	3.0	<5	<.2	55	114
M695696	183.70	186.70	3.0	<5	<.2	29	52
M695697	186.70	189.70	3.0	<5	<.2	38	84
M695698	189.70	192.70	3.0	<5	<.2	46	130
M695699	192.70	195.70	3.0	<5	<.2	45	102

Hole No.: DDH97-10			Depth: 152.10 m	Horizontal Length:		
Property: ALLIN			Location: 49 KM SOUTHEAST OF HOUSTON			Province: BC
Claim No.: 350311	Reference No.:		Project:			
Grid Name: ALLIN-1	Grid Type (Imperial/Metric): Metric					
Grid North Azimuth Measured Clockwise From True North: 30.000°						
Grid Co-ordinates & Attitude Of Drill Hole Collar:						
Easting: -5,150.00 m		Northing: 600.00 m				
Elevation:		Hole Angle: -90.00°				
Hole Direction Measured Clockwise From Grid North:						
Hole Direction Measured Clockwise From True North:						
Date Drilling Started: 03-SEP-97			Date Finished: 08-SEP-97			
Drilled By: BEAUPRE DIAMOND DRILLING						
Logged By: M.D. Buchanan						
Legend For Core Logging Codes: BC (GENERAL)						
Target Type: ENZYME LEACH			Borehole PEM: No			
Core Size: NQ		Cemented: No				
Casing Depth: 17.68 m		Casing Pulled: Yes				
Water Depth:		Overburden Depth: 17.68 m				
Level:	Section:	Drift:				
NTS Sheet Number: 093L01						
NTS Sheet Name: COLLEYMOUNT						
UTM Grid Zone: 9		UTM Datum: NAD83				
UTM Easting: 682,047.00 m		UTM Northing: 6,003,582.00 m				
Assay Elements:						
AU	AG	CU	ZN			
Data Entry Marked Complete: Yes						

General Comments About Hole

- NW casing to 17.68 meters.
- overburden 17.68 meters.
- casing removed.
- all drill steel recovered.
- hole ddh97-10 consists of interbedded sand seams with black argillite.

18-DEC-97
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Hudson Bay Exploration And Development Co. Ltd.
Diamond Drill Log
Comprehensive Report For Hole DDH97-10

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In Hole Survey Method: Dip Test

<u>Distance (m)</u>	<u>Azimuth</u>	<u>Dip</u>
76.20	0.00	-88.50
152.10	0.00	-88.50

Depth (m)		Description Of Core
From	To	
0.00	17.68	<u>GLACIAL OVERBURDEN</u> Coded As: gt Glacial Till, , . -glacial till consistin of pebble to boulder sized clasts of andesite and intrusive. -clay rich matrix. -hole cased with NW casing to 21.34m.
17.68	60.36	<u>ARGILLITE</u> Coded As: ag ARGILLITE, dark gray to black, bedded. -argillite interbedded with medium grained sandstone. -calcareous. -bedding 55 degrees to CA. -sandstone/grit seams range in thickness from 1 to 100mm thick averaging 5mm. -minor pyrite in grit seams. -minor quartz veins @ 15 degrees to CA. -minor graphite along slickensides and fractures. -variable magnetism throughout. -fining of sediments downward. -sharp lower conact @ 75 degrees to CA. Mineralization: trace disseminated pyrite, cubic 1 mm grains. 42.70 43.04 <u>SAND SEAM</u> Coded As: Sand & Clay, light gray to gray, friable. moderately sorted fine sand (< 1/16 mm) -fine grained sand. -minor faulting. -load structures. -micro faulting across bedding planes. -magnetic. -sharp upper and lower conacts. 44.17 44.39 <u>SAND SEAM</u> Coded As: Sand & Clay, light gray to gray, friable. moderately sorted fine sand (< 1/16 mm) -fine grained sand. -minor faulting. -load structures. -micro faulting across bedding planes. -magnetic. -sharp upper and lower conacts.
60.36	78.88	<u>ANDESITIC DYKE</u> Coded As: 8

Depth (m)		Description Of Core
From	To	
		Andesite Flow, buff to gray, amygdaloidal. -aphanitic groundmass. -magnetic. -minor siliceous argillite zone @ 63.78m. -minor quartz veining. -numerous amygdules and vugs filled with calcite. -minor flow texture @ 25 degrees to CA. -broken lower contact parallel to bedding. Major Rock Forming Minerals: 25% phenocryst feldspar, euhedral 3 mm grains.
78.88	86.67	<u>ARGILLITE</u> Coded As: ag ARGILLITE, dark gray to black, bedded. -argillite interbedded with medium grained sandstone. -calcareous. -bedding 55 degrees to CA. -sandstone/grit seams range in thickness from 1 to 100mm thick averaging 5mm. -minor pyrite in grit seams. -minor quartz veins @ 15 degrees to CA. -minor graphite along slickensides and fractures. -variable magnetism throughout. -fining of sediments downward. -broken lower contact @ 10 degrees to CA. Mineralization: trace disseminated pyrite, cubic 1 mm grains.
86.67	93.46	<u>ANDESITIC DYKE</u> Coded As: 8 Andesite Flow, gray to black, amygdaloidal. -aphanitic groundmass. -magnetic. -ameoba shaped amygdules 5 to 25mm in diameter filled with quartz. -quartz filled fractures @ 40 degrees to CA. -sharp lower contact 75 degrees to CA. Major Rock Forming Minerals: 5% phenocryst feldspar, euhedral 3 mm grains.
93.46	152.10	<u>ARGILLITE</u> Coded As: ag ARGILLITE, dark gray to black, bedded. -argillite interbedded with medium grained sandstone. -calcareous. -minor quartz veins @ 15 degrees to CA. -minor graphite along slickensides and fractures. -variable magnetism throughout. -fining of sediments downward. Mineralization: trace disseminated pyrite, cubic 1 mm grains.

SAMPLE NUMBER	From: (m)	To: (m)	Interval	Au ppb FA+AA	Ag ppm	Cu ppm	Zn ppm
M695616	56.09	59.09	3.0	<5	<.2	33	60
M695617	79.94	81.94	2.0	<5	<.2	31	48
M695618	118.11	121.11	3.0	<5	<.2	39	132
M695619	42.70	44.39	1.7	<5	<.2	24	58

Hole No.: DDH97-11			Depth: 153.45 m	Horizontal Length:		
Property: ALLIN			Location: 49 KM SOUTHEAST OF HOUSTON			Province: BC
Claim No.: 316462	Reference No.:		Project:			
Grid Name: ALLIN-1	Grid Type (Imperial/Metric): Metric					
Grid North Azimuth Measured Clockwise From True North: 30.000°						
Grid Co-ordinates & Attitude Of Drill Hole Collar:						
Easting: -5,500.00 m		Northing: 4,175.00 m				
Elevation:		Hole Angle: -45.00°				
Hole Direction Measured Clockwise From Grid North: 330.00°						
Hole Direction Measured Clockwise From True North: 300.00°						
Date Drilling Started: 10-SEP-97			Date Finished: 13-SEP-97			
Drilled By: BEAUPRE DIAMOND DRILLING						
Logged By: M.D. Buchanan						
Legend For Core Logging Codes: BC (GENERAL)						
Target Type: ENZYME LEACH			Borehole PEM: No			
Core Size: NQ		Cemented: No				
Casing Depth: 9.14 m		Casing Pulled: Yes				
Water Depth:		Overburden Depth: 23.33 m				
Level:	Section:	Drift:				
NTS Sheet Number: 092L01						
NTS Sheet Name: COLLEYMOUNT						
UTM Grid Zone: 9		UTM Datum: NAD83				
UTM Easting: 683,488.00 m		UTM Northing: 6,007,013.00 m				
Assay Elements:						
AU	AG	CU	ZN			
Data Entry Marked Complete: Yes						

General Comments About Hole

- NW casing to 9.14 meters.
- overburden 23.33 meters deep.
- casing removed.
- all drill steel recovered.
- hole consists of altered andesite, diorites and ash flow.

19-DEC-97
07:18:56

Hudson Bay Exploration And Development Co. Ltd.
Diamond Drill Log
Comprehensive Report For Hole DDH97-11

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In Hole Survey Method: Dip Test

<u>Distance (m)</u>	<u>Azimuth</u>	<u>Dip</u>
76.20	0.00	44.00
154.83	0.00	42.00

Depth (m)		Description Of Core
From	To	
0.00	33.00	<u>OVERBURDEN TILL</u> Coded As: gt Glacial Till, , . -overburden consisting of pebble to boulder sized clasts in a clay rich matrix. -30% andesite . -70% intrusives and other.
33.00	37.50	<u>FELDSPAR PORPHYRY</u> Coded As: fp Feldspar Porphyry, brown to gray, porphyritic. -oxidized along fractures. -aphanitic groundmass. -pyrrhotite with quartz and chlorite alteration rings. -minor alteration of feldspars to kaolinite. -chlorite alteration around sulphides. -magnetic. -broken, gradational lower contact. Mineralization: 2% blebs pyrrhotite, anhedral 1 mm grains. Major Rock Forming Minerals: 15% equant feldspar, phenocryst 10 mm grains; 5% patches quartz, none noted 7 mm grains; 3% equant hornblende, phenocryst 2 mm grains.
37.50	42.26	<u>ASH FLOW</u> Coded As: af Ash Flow, light gray to gray, aphanitic. -overall texture structureless except for some weak bedding 55 degrees to CA. -dendritic manganese oxide along fractures. -pyrite and pyrrhotite occur as blebs and disseminations along fractures. -minor bleaching/alteration around sulphide blebs. -lost/broken lower contact. Mineralization: 3% blebs pyrrhotite, none noted 1 mm grains.
42.26	70.45	<u>DIORITE</u> Coded As: di Diorite, light gray to gray, porphyritic. -chlorite in groundmass and concentrated around pyrite grains. -calcite infilling along iron stained fractures. -slightly magnetic. -sharp lower contact 50 degrees to CA. Mineralization: trace disseminated pyrite, cubic 1 mm grains; trace disseminated magnetite, none noted 1 mm grains. Major Rock Forming Minerals: 35% equant feldspar, phenocryst 3 mm grains; 20% equant quartz,

Depth (m)		Description Of Core
From	To	
		phenocryst 1 mm grains; 2% disseminated biotite, flake 1 mm grains.
48.96	54.67	FELDSPAR PHYRIC ANDESITE Coded As: 8p Andesite Flow: feldspar-phyric, light gray to gray, porphyritic. -fractures filled with calcite, quartz and minor pyrite. -minor oxidation along fractures. -minor quartz veins. -1-3% pyrrhotite and pyrite along fractures. -broken upper and lower contacts. Mineralization: 3% fracture filling pyrrhotite, none noted 1 mm grains. Major Rock Forming Minerals: 15% elongate feldspar, phenocryst 15 mm grains; 5% equant hornblende, phenocryst 1 mm grains; trace groundmass chlorite, flake 1 mm grains.
70.45	82.46	FELDSPAR PHYRIC ANDESITE Coded As: 8p Andesite Flow: feldspar-phyric, light gray to gray, porphyritic. -aphanitic-porphyritic. -minor flow textures in sulphides 30 degrees to CA. -magnetic. -sulphides occur as blebs with concentric rings of quartz and chlorite around pyrrhotite. -sharp lower contact 45 degrees to CA. Mineralization: 3% blebs pyrrhotite, anhedral 1 mm grains. Major Rock Forming Minerals: 25% elongate feldspar, phenocryst 15 mm grains.
82.46	90.87	CHLORITIC ANDESITE Coded As: 8 Andesite Flow, light gray to gray, altered. -aphanitic groundmass. -hornblende altered to chlorite. -disseminated pyrrhotite within chlorite. -minor fractures. -moderately magnetic. -sharp lower contact 30 degrees to CA. Mineralization: 2% disseminated pyrrhotite, none noted 1 mm grains. Major Rock Forming Minerals: 5% equant feldspar, phenocryst 4 mm grains; 20% equant chlorite,

Depth (m)		Description Of Core
From	To	
		subhedral 3 mm grains.
90.87	113.63	CROWDED FELDSPAR PORPHYRY Coded As: fp Feldspar Porphyry, light gray to gray, porphyritic. -porphyritic texture. -flow alignment of feldspars. -pyrrhotite along fractures. -magnetic. -sharp lower contact 20 degrees to CA. Mineralization: 4% disseminated pyrrhotite, none noted 1 mm grains. Alteration: 20% equant chlorite, subhedral 5 mm grains. Major Rock Forming Minerals: 20% elongate feldspar, phenocryst 20 mm grains.
		99.61 101.90 CHLORITIC ANDESITE Coded As: 8 Andesite Flow, light green to gray, altered. -aphanitic groundmass. -chlorite replacement of hornblende. -pyrrhotite occurring as disseminations and blebs. -blebs rimmed with chlorite. -sharp upper contact 45 degrees to CA. -sharp lower contact 20 degrees to CA. Mineralization: 2% disseminated pyrrhotite, none noted 1 mm grains; 1% blebs pyrrhotite, subrounded 3 mm grains. Alteration: 20% disseminated chlorite, none noted 3 mm grains. Major Rock Forming Minerals: 5% equant feldspar, phenocryst 4 mm grains.
		103.68 105.95 CHLORITIC ANDESITE Coded As: 8 Andesite Flow, light green to gray, altered. -aphanitic groundmass. -chlorite replacement of hornblende. -pyrrhotite occurring as disseminations and blebs. -blebs rimmed with chlorite. -sharp upper contact 30 degrees to CA. -sharp lower contact 85 degrees to CA. Mineralization: 2%

Depth (m)		Description Of Core
From	To	
		disseminated pyrrhotite, none noted 1 mm grains; 1% blebs pyrrhotite, subrounded 3 mm grains. Alteration: 20% disseminated chlorite, none noted 3 mm grains. Major Rock Forming Minerals: 5% equant feldspar, phenocryst 4 mm grains.
113.63	120.25	<u>FELDSPAR PHYRIC ANDESITE</u> Coded As: 8p Andesite Flow: feldspar-phyric, light gray to gray, porphyritic. -aphanitic-porphyritic. -magnetic. -sulphides occur as blebs with concentric rings of quartz and chlorite around pyrrhotite. -sharp lower contact. Mineralization: 3% blebs pyrrhotite, anhedral 1 mm grains. Major Rock Forming Minerals: 25% elongate feldspar, phenocryst 15 mm grains.
120.25	132.60	<u>CROWDED FELDSPAR PORPHYRY</u> Coded As: fp Feldspar Porphyry, light gray to gray, porphyritic. -porphyritic texture. -10% - 15-45mm spherical shaped amygdules filled with pyrrhotite and quartz. -pyrrhotite along fractures. -magnetic. -sharp broken lower contact. Mineralization: 2% blebs pyrrhotite, none noted 1 mm grains. Alteration: 20% equant chlorite, subhedral 5 mm grains. Major Rock Forming Minerals: 35% elongate feldspar, phenocryst 20 mm grains.
	120.25 122.52	<u>ASH FLOW</u> Coded As: af Ash Flow, light green to gray, aphanitic. -3% - 5% disseminated pyrrhotite. -pervasive irregular fracturing infilled with pyrrhotite. -chloritic alteration. -magnetic. -sharp upper contact 40 degrees to CA. -lower contact lost.

Depth (m)		Description Of Core
From	To	
		<p style="text-align: right;">Mineralization: 4% disseminated pyrrhotite, none noted 1 mm grains.</p>
132.60	137.75	<p>FELDSPAR PHYRIC ANDESITE Coded As: 8p Andesite Flow: feldspar-phyric, light green to gray, porphyritic. -aphanitic-porphyritic. -pyrrhotite occurs as fracture fillings with quartz and chlorite and as disseminations. -magnetic. -sharp lower contact 30 degrees to CA. Mineralization: 3% disseminated pyrrhotite, anhedral 1 mm grains. Major Rock Forming Minerals: 25% elongate feldspar, phenocryst 15 mm grains.</p>
137.75	153.45	<p>ASH FLOW Coded As: af Ash Flow, light gray to gray, bedded. -aphanitic groundmass. -weak bedding?? @ 60 degrees to CA. -alternating dark and light bands. -dark bands contain disseminated pyrrhotite. -minor blebs of pyrrhotite. -minor chloritized amygdules filled with quartz and pyrrhotite. -magnetic. Mineralization: 5% disseminated pyrrhotite, none noted 1 mm grains.</p>

SAMPLE NUMBER	From: (m)	To: (m)	Interval	Au ppb FA+AA	Ag ppm	Cu ppm	Zn ppm
M695620	84.12	87.12	3.0	<5	<.2	36	62
M695621	103.68	105.95	2.3	<5	<.2	43	50
M695622	120.25	122.52	2.3	<5	<.2	41	72
M695623	137.75	140.75	3.0	<5	<.2	31	82
M695624	140.75	143.75	3.0	<5	<.2	29	70
M695625	143.75	146.75	3.0	<5	<.2	39	76
M695626	146.75	149.75	3.0	<5	<.2	34	62
M695627	149.75	152.75	3.0	<5	<.2	35	60
M695628	152.75	155.45	2.7	<5	<.2	42	84

Appendix 2



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: HUDSON BAY EXPLORATION & DEVELOPMENT CO. LTD.

405 - 470 GRANVILLE ST.
 VANCOUVER, BC
 V6C 1V5

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 17-SEP-97
 Invoice No. : 19741869
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Project : ALLIN
 Comments:

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9741869

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
M695201	205 274	< 5	< 0.2	0.77	46	30	0.5	< 2	1.67	< 0.5	23	31	51	6.01	< 10	6	0.11	30	0.87	445
M695202	205 274	< 5	< 0.2	0.61	< 2	160	1.0	< 2	2.67	0.5	18	19	26	4.42	< 10	1	0.08	30	1.80	820
M695203	205 274	< 5	< 0.2	0.45	< 2	100	1.0	< 2	1.90	< 0.5	12	20	42	4.45	< 10	< 1	0.09	60	0.70	1140
M695204	205 274	< 5	< 0.2	2.38	6	170	0.5	< 2	3.48	0.5	18	65	89	3.60	10	< 1	0.20	30	1.86	865
M695205	205 274	< 5	< 0.2	2.42	6	160	0.5	< 2	3.07	0.5	23	72	43	4.65	10	< 1	0.14	30	2.56	965
M695206	205 274	< 5	< 0.2	2.15	2	170	0.5	< 2	5.72	0.5	19	66	43	4.13	10	< 1	0.17	30	2.18	1060
M695207	205 274	20	0.2	0.73	190	480	0.5	< 2	7.27	0.5	17	13	17	2.74	< 10	3	0.16	10	3.73	955
M695208	205 274	10	< 0.2	1.14	34	260	0.5	< 2	1.95	< 0.5	29	27	38	3.91	< 10	1	0.20	30	1.14	1220
M695209	205 274	< 5	< 0.2	0.71	2	140	1.0	< 2	1.94	0.5	11	22	55	2.83	< 10	< 1	0.16	40	0.42	425
M695210	205 274	< 5	< 0.2	0.70	< 2	960	1.0	< 2	4.56	0.5	6	15	34	2.15	< 10	< 1	0.13	40	0.78	530
M695211	205 274	< 5	< 0.2	1.12	6	40	1.5	< 2	1.40	< 0.5	35	46	52	3.96	< 10	1	0.16	40	0.84	605
M695212	205 274	< 5	< 0.2	1.29	16	40	1.5	< 2	1.34	< 0.5	25	42	44	5.46	< 10	1	0.18	40	0.73	1055
M695213	205 274	< 5	< 0.2	1.50	6	50	1.5	< 2	1.02	< 0.5	25	49	46	4.85	< 10	3	0.17	40	1.07	365
M695214	205 274	< 5	< 0.2	1.34	2	90	0.5	< 2	2.01	0.5	24	55	36	4.38	< 10	1	0.16	40	1.40	1425
M695215	214 229	110	2.0	3.96	48	70	< 0.5	< 2	1.20	3.5	23	105	1435	8.69	10	< 1	0.78	< 10	1.72	360
M695216	214 229	935	9.0	3.38	160	30	< 0.5	< 2	0.83	16.5	38	106	7900	12.00	10	10	0.84	< 10	2.02	455
M695217	205 274	< 5	< 0.2	1.15	4	260	1.0	< 2	1.88	< 0.5	12	18	39	2.26	< 10	< 1	0.18	50	0.43	735
M695218	205 274	< 5	< 0.2	1.13	12	150	1.0	< 2	1.00	< 0.5	9	15	30	2.41	< 10	1	0.17	40	0.38	475
M695219	205 274	< 5	< 0.2	0.87	6	160	1.0	< 2	1.15	< 0.5	9	12	41	1.90	< 10	< 1	0.14	50	0.29	415
M695220	205 274	< 5	< 0.2	1.15	16	100	1.5	< 2	1.08	< 0.5	9	10	44	1.79	< 10	< 1	0.14	40	0.32	55
M695221	205 274	< 5	< 0.2	0.63	38	60	0.5	< 2	0.77	< 0.5	17	21	35	2.72	< 10	< 1	0.11	40	0.23	270
M695222	205 274	< 5	< 0.2	0.41	28	30	0.5	< 2	0.71	< 0.5	13	19	26	2.61	< 10	< 1	0.10	40	0.19	225
M695223	205 274	< 5	< 0.2	0.31	< 2	240	0.5	< 2	1.61	< 0.5	7	15	25	2.43	< 10	< 1	0.10	30	0.21	1020
M695224	205 274	< 5	< 0.2	0.42	4	270	0.5	< 2	0.88	< 0.5	12	17	28	2.33	< 10	< 1	0.10	30	0.21	790
M695225	205 274	< 5	< 0.2	0.41	< 2	160	0.5	< 2	0.78	< 0.5	12	19	38	2.99	< 10	< 1	0.11	40	0.22	835
M695226	205 274	< 5	< 0.2	0.42	2	120	0.5	< 2	0.72	< 0.5	13	20	40	3.02	< 10	1	0.12	40	0.24	780
M695227	205 274	< 5	< 0.2	0.39	2	60	0.5	< 2	2.33	0.5	12	20	32	2.78	< 10	< 1	0.13	40	0.25	1215
M695228	214 229	110	2.0	4.29	50	60	< 0.5	< 2	1.31	3.5	23	109	1560	9.34	10	< 1	0.84	< 10	1.84	395
M695229	214 229	8000	54.6	1.59	938	10	< 0.5	Intf*	1.13	75.0	158	52	>10000	>15.00	10	16	0.25	< 10	1.01	550

* INTERFERENCES: Cu on Bi and P

⊗ - Control Sample

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: HUDSON BAY EXPLORATION & DEVELOPMENT CO. LTD.

405 - 470 GRANVILLE ST.
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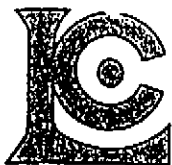
* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9741869

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
M695201	205 274	3	0.05	78	2240	6	< 2	5	147	0.02	< 10	< 10	51	< 10	86
M695202	205 274	< 1	0.14	27	1820	6	2	8	304	< 0.01	< 10	< 10	58	< 10	74
M695203	205 274	1	0.11	10	3160	4	4	10	177	0.04	< 10	< 10	96	< 10	154
M695204	205 274	< 1	0.20	72	1420	8	< 2	4	536	< 0.01	< 10	< 10	59	< 10	78
M695205	205 274	< 1	0.27	70	1970	2	< 2	8	385	0.10	< 10	< 10	122	< 10	88
M695206	205 274	< 1	0.24	56	1790	4	< 2	8	467	0.09	< 10	< 10	103	< 10	80
M695207	205 274	3	0.18	29	540	14	12	4	1145	< 0.01	< 10	< 10	23	< 10	92
M695208	205 274	< 1	0.25	42	1790	10	6	8	561	< 0.01	< 10	< 10	49	< 10	122
M695209	205 274	< 1	0.23	15	1660	4	< 2	6	369	0.09	< 10	< 10	71	< 10	90
M695210	205 274	< 1	0.15	7	1770	8	< 2	3	781	0.01	< 10	< 10	31	< 10	60
M695211	205 274	4	0.25	87	2520	8	< 2	11	135	0.03	< 10	< 10	74	< 10	120
M695212	205 274	3	0.28	60	2310	10	< 2	10	155	0.03	< 10	< 10	67	< 10	94
M695213	205 274	1	0.28	65	2190	12	< 2	12	150	0.04	< 10	< 10	80	< 10	124
M695214	205 274	< 1	0.27	60	2370	8	< 2	12	167	0.08	< 10	< 10	91	< 10	90
M695215	214 229	5	0.11	6	760	148	< 2	14	34	0.07	< 10	< 10	19	< 10	646
M695216	214 229	3	0.09	4	870	604	< 2	16	22	0.08	< 10	< 10	24	< 10	5560
M695217	205 274	< 1	0.28	19	2270	14	< 2	8	175	0.02	< 10	< 10	40	< 10	64
M695218	205 274	3	0.29	13	1430	14	< 2	6	168	0.01	< 10	< 10	29	< 10	54
M695219	205 274	4	0.33	13	2190	12	< 2	5	206	0.01	< 10	< 10	27	< 10	56
M695220	205 274	25	0.39	11	1430	12	< 2	5	257	< 0.01	< 10	< 10	19	< 10	42
M695221	205 274	3	0.14	23	2150	2	2	5	93	0.04	< 10	< 10	54	< 10	64
M695222	205 274	1	0.13	20	2000	6	< 2	4	81	0.07	< 10	< 10	58	< 10	134
M695223	205 274	2	0.11	12	1810	2	< 2	4	114	0.04	< 10	< 10	53	< 10	106
M695224	205 274	1	0.14	16	1690	2	< 2	3	152	0.03	< 10	< 10	42	< 10	76
M695225	205 274	3	0.11	17	1850	2	< 2	5	92	0.04	< 10	< 10	57	< 10	82
M695226	205 274	3	0.10	19	1890	2	< 2	5	72	0.05	< 10	< 10	64	< 10	94
M695227	205 274	3	0.09	17	1350	8	< 2	6	71	0.12	< 10	< 10	87	< 10	84
M695228	214 229	5	0.12	7	830	176	< 2	15	36	0.08	< 10	< 10	20	< 10	696
M695229	214 229	8	0.05	7	Intf*	3440	18	5	22	0.03	< 10	< 10	14	< 10	>10000

* INTERFERENCES: Cu on Bi and P

CERTIFICATION: *Hart Buehler*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: HUDSON BAY EXPLORATION & DEVELOPMENT CO. LTD.

405 - 470 GRANVILLE ST.
 VANCOUVER, BC
 V6C 1V5

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 Certificate Date: 28-SEP-97
 Invoice No. : I9743291
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 Account : T

Project : 2315
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* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9743291

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
M695620	205 276	< 5	< 0.2	2.01	34	100	< 0.5	< 2	2.43	0.5	19	152	36	3.62	10	< 1	0.04	10	1.82	465
M695621	205 276	< 5	< 0.2	2.30	38	60	0.5	< 2	4.01	0.5	19	58	43	4.62	10	< 1	0.14	40	2.22	705
M695622	205 276	< 5	< 0.2	1.86	76	80	< 0.5	< 2	2.07	0.5	16	57	41	3.87	10	< 1	0.06	30	1.44	475
M695623	205 276	< 5	< 0.2	2.04	62	140	0.5	< 2	4.78	0.5	17	17	31	4.24	10	< 1	0.16	30	1.68	800
M695624	205 276	< 5	< 0.2	1.84	22	120	< 0.5	< 2	4.11	0.5	19	12	29	4.40	10	< 1	0.17	30	1.43	710
M695625	205 276	< 5	< 0.2	1.66	762	180	0.5	< 2	3.52	0.5	17	9	39	4.45	10	< 1	0.17	40	1.21	610
M695626	205 276	< 5	< 0.2	1.74	426	180	0.5	< 2	3.23	0.5	19	10	34	4.69	10	< 1	0.22	40	1.12	525
M695627	205 276	< 5	< 0.2	1.74	40	150	0.5	< 2	3.45	0.5	16	13	35	4.37	10	< 1	0.22	40	1.10	430
M695628	205 276	< 5	< 0.2	2.24	26	140	0.5	< 2	4.73	0.5	20	15	42	5.19	10	< 1	0.25	40	1.59	770
M695629	205 276	< 5	< 0.2	1.66	18	50	0.5	< 2	0.95	< 0.5	13	15	44	4.21	< 10	2	0.11	30	0.34	535
M695630	205 276	< 5	< 0.2	1.52	38	40	0.5	2	0.51	< 0.5	15	20	42	3.62	< 10	4	0.12	< 10	0.16	170
M695631	205 276	< 5	< 0.2	1.37	40	40	0.5	< 2	2.40	< 0.5	19	19	30	3.24	< 10	3	0.03	< 10	0.03	45
M695632	205 276	< 5	< 0.2	1.87	24	50	0.5	< 2	2.59	0.5	17	22	39	4.29	< 10	6	0.23	30	0.99	780
M695651	205 276	< 5	< 0.2	2.52	24	150	0.5	< 2	3.54	0.5	18	132	39	4.07	10	< 1	0.11	10	2.30	645
M695652	205 276	< 5	< 0.2	2.52	18	100	< 0.5	< 2	3.27	1.0	19	132	44	4.67	10	< 1	0.11	10	2.29	630
M695653	205 276	< 5	< 0.2	2.45	10	40	< 0.5	< 2	3.84	1.0	19	113	41	4.66	10	< 1	0.08	10	2.38	645
M695654	205 276	< 5	< 0.2	1.96	8	50	0.5	< 2	2.78	0.5	17	64	39	4.10	10	< 1	0.12	10	1.75	495
M695655	205 276	< 5	< 0.2	2.61	12	50	< 0.5	< 2	3.10	1.0	22	142	56	5.28	10	1	0.09	10	2.42	650
M695656	205 276	< 5	< 0.2	2.20	14	40	< 0.5	< 2	3.11	0.5	18	135	34	4.20	10	< 1	0.10	10	2.02	535
M695657	205 276	< 5	< 0.2	2.29	14	50	< 0.5	< 2	3.15	0.5	20	132	38	4.51	10	< 1	0.06	10	2.27	605
M695658	205 276	< 5	< 0.2	2.37	22	30	< 0.5	< 2	3.73	0.5	16	125	35	3.98	10	< 1	0.07	< 10	2.38	695
M695659	205 276	< 5	< 0.2	2.55	16	30	< 0.5	< 2	3.67	1.0	18	132	39	4.27	10	< 1	0.08	10	2.48	720
M695660	205 276	< 5	< 0.2	2.85	24	20	< 0.5	< 2	3.73	0.5	18	134	30	4.30	10	< 1	0.11	10	2.77	770
M695661	205 276	< 5	< 0.2	2.81	20	40	0.5	< 2	3.97	1.0	20	143	48	4.99	10	< 1	0.13	10	2.66	785
M695662	205 276	< 5	< 0.2	3.20	48	30	0.5	< 2	5.92	1.0	20	137	26	4.56	10	< 1	0.10	10	3.04	905
M695663	205 276	< 5	< 0.2	3.11	36	80	0.5	< 2	4.79	1.5	18	134	34	5.03	10	< 1	0.15	10	2.85	835
M695664	205 276	< 5	< 0.2	2.75	26	490	0.5	< 2	4.59	0.5	17	131	30	4.16	10	< 1	0.20	10	2.46	760
M695665	205 276	< 5	< 0.2	2.77	34	280	0.5	< 2	5.09	1.0	18	128	32	4.19	10	< 1	0.16	10	2.61	815
M695666	205 276	< 5	< 0.2	2.73	42	310	0.5	< 2	4.57	1.0	18	130	39	4.38	10	< 1	0.21	10	2.35	735
M695667	205 276	< 5	< 0.2	2.89	64	60	0.5	< 2	4.73	1.5	20	135	35	4.72	10	< 1	0.09	10	2.56	860
M695668	205 276	< 5	< 0.2	4.19	8	60	0.5	< 2	3.73	1.0	18	37	35	4.54	10	< 1	0.06	30	2.18	660
M695669	205 276	< 5	< 0.2	2.26	18	30	< 0.5	< 2	2.99	0.5	17	114	39	4.11	10	< 1	0.03	< 10	1.96	775
M695670	205 276	< 5	< 0.2	2.25	10	40	< 0.5	< 2	2.88	0.5	20	115	41	4.44	10	< 1	0.04	10	2.00	710
M695671	205 276	< 5	< 0.2	1.62	16	40	< 0.5	< 2	1.94	0.5	15	42	39	3.81	10	< 1	0.05	10	1.24	410
M695672	205 276	< 5	< 0.2	1.94	10	50	< 0.5	< 2	2.10	0.5	16	48	41	4.08	10	< 1	0.05	10	1.51	480
M695673	205 276	< 5	< 0.2	1.84	10	40	< 0.5	< 2	2.07	0.5	15	49	41	4.15	10	< 1	0.06	10	1.58	535
M695674	205 276	< 5	< 0.2	1.90	10	40	< 0.5	< 2	2.24	1.0	17	55	49	4.66	10	< 1	0.07	30	1.75	600
M695675	214 229	9400	58.4	1.63	952	10	< 0.5	Intf*	1.18	96.0	155	62	>10000	>15.00	20	13	0.25	< 10	1.00	575
M695676	214 229	870	9.2	3.42	154	20	< 0.5	< 2	0.85	20.0	36	121	7680	12.10	10	9	0.83	< 10	1.95	500
M695677	205 276	< 5	< 0.2	1.48	8	50	< 0.5	< 2	2.37	0.5	25	98	46	4.91	< 10	< 1	0.05	10	1.31	505

* INTERFERENCES: Cu on Bi and P

23 - Control Sample

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
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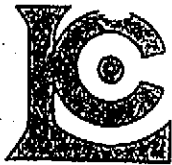
* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9743291

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
M695620	205 276	< 1	0.10	111	1380	16	< 2	6	247	0.27	< 10	< 10	102	< 10	62
M695621	205 276	1	0.05	42	2330	10	< 2	7	333	0.08	< 10	< 10	107	< 10	50
M695622	205 276	< 1	0.11	56	1880	12	< 2	6	224	0.22	< 10	< 10	134	< 10	72
M695623	205 276	< 1	0.06	34	2370	18	< 2	5	430	0.03	< 10	< 10	108	< 10	82
M695624	205 276	< 1	0.06	32	2310	24	< 2	4	412	0.02	< 10	< 10	108	< 10	70
M695625	205 276	< 1	0.05	17	2660	28	2	3	304	0.01	< 10	< 10	97	< 10	76
M695626	205 276	< 1	0.07	21	2750	20	4	3	292	< 0.01	< 10	< 10	101	< 10	62
M695627	205 276	< 1	0.06	18	2660	22	< 2	3	305	< 0.01	< 10	< 10	93	< 10	60
M695628	205 276	< 1	0.06	30	2810	20	< 2	3	380	0.04	< 10	< 10	113	< 10	84
M695629	205 276	6	0.04	17	1700	20	2	7	34	< 0.01	< 10	< 10	47	< 10	102
M695630	205 276	7	0.04	25	820	16	< 2	4	107	< 0.01	< 10	< 10	33	< 10	64
M695631	205 276	7	0.01	39	270	2	< 2	3	175	< 0.01	< 10	< 10	26	< 10	58
M695632	205 276	1	0.05	31	1870	16	< 2	6	76	< 0.01	< 10	< 10	57	< 10	80
M695651	205 276	< 1	0.03	73	2190	6	< 2	9	210	0.17	< 10	< 10	123	< 10	54
M695652	205 276	< 1	0.03	83	2120	10	< 2	9	184	0.19	< 10	< 10	125	< 10	114
M695653	205 276	< 1	0.03	72	2140	6	< 2	9	202	0.21	< 10	< 10	127	< 10	52
M695654	205 276	< 1	0.03	42	1880	8	< 2	8	150	0.17	< 10	< 10	120	< 10	54
M695655	205 276	< 1	0.03	99	2320	14	< 2	10	175	0.22	< 10	< 10	137	< 10	76
M695656	205 276	< 1	0.03	81	2100	< 2	< 2	9	188	0.18	< 10	< 10	118	< 10	38
M695657	205 276	< 1	0.03	91	2180	12	< 2	9	202	0.17	< 10	< 10	125	< 10	48
M695658	205 276	< 1	0.03	68	1950	4	< 2	8	238	0.16	< 10	< 10	115	< 10	56
M695659	205 276	< 1	0.03	72	2000	4	< 2	9	237	0.18	< 10	< 10	125	< 10	62
M695660	205 276	< 1	0.02	72	2070	10	< 2	8	234	0.20	< 10	< 10	123	< 10	88
M695661	205 276	< 1	0.02	84	2220	6	< 2	9	264	0.23	< 10	< 10	133	< 10	58
M695662	205 276	< 1	0.02	81	2020	6	< 2	8	505	0.22	< 10	< 10	127	< 10	62
M695663	205 276	1	0.01	84	2160	18	< 2	8	305	0.21	< 10	< 10	124	< 10	78
M695664	205 276	< 1	0.02	75	2110	6	< 2	8	301	0.18	< 10	< 10	114	< 10	62
M695665	205 276	< 1	0.01	77	2120	8	< 2	8	309	0.19	< 10	< 10	120	< 10	50
M695666	205 276	< 1	0.02	76	2070	8	< 2	8	288	0.20	< 10	< 10	115	< 10	56
M695667	205 276	< 1	0.03	80	2240	6	< 2	8	272	0.19	< 10	< 10	124	< 10	92
M695668	205 276	< 1	0.09	67	2000	8	< 2	3	800	0.38	< 10	< 10	122	< 10	92
M695669	205 276	< 1	0.05	72	1880	8	< 2	9	234	0.16	< 10	< 10	121	< 10	66
M695670	205 276	< 1	0.06	91	1990	12	< 2	6	220	0.15	< 10	< 10	118	< 10	78
M695671	205 276	2	0.09	41	2000	6	< 2	4	382	0.12	< 10	< 10	88	< 10	92
M695672	205 276	< 1	0.10	42	2080	12	< 2	5	430	0.14	< 10	< 10	100	< 10	74
M695673	205 276	1	0.08	40	1800	14	< 2	6	306	0.13	< 10	< 10	98	< 10	142
M695674	205 276	8	0.08	41	1870	20	< 2	6	231	0.16	< 10	< 10	109	< 10	112
M695675	214 229	6	0.05	6	Intf*	3530	12	5	21	0.03	< 10	< 10	14	< 10	>10000
M695676	214 229	< 1	0.10	4	860	604	< 2	15	21	0.08	< 10	< 10	24	< 10	5730
M695677	205 276	< 1	0.12	129	1990	14	< 2	6	198	0.24	< 10	< 10	85	< 10	62

* INTERFERENCES: Cu on Bi and P

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: HUDSON BAY EXPLORATION & DEVELOPMENT CO. LTD.

405 - 470 GRANVILLE ST.
 VANCOUVER, BC
 V6C 1V5

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* PLEASE NOTE

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SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
M695678	205 276	10	< 0.2	1.83	8	20	< 0.5	< 2	3.16	1.0	24	145	37	5.15	10	< 1	0.02	10	2.25	785
M695679	205 276	< 5	< 0.2	1.23	8	40	< 0.5	< 2	1.77	0.5	22	91	31	4.34	< 10	< 1	0.04	10	0.91	375
M695680	205 276	< 5	< 0.2	1.86	12	30	< 0.5	< 2	2.81	1.0	23	143	38	5.12	10	< 1	0.04	10	2.05	815
M695681	205 276	< 5	< 0.2	2.09	20	30	< 0.5	< 2	2.92	1.0	25	152	38	5.10	10	< 1	0.04	10	2.25	875
M695682	205 276	< 5	< 0.2	1.86	20	30	< 0.5	< 2	2.70	0.5	24	129	39	4.73	10	< 1	0.05	< 10	1.86	690
M695683	205 276	< 5	< 0.2	2.09	24	20	< 0.5	< 2	3.84	0.5	21	131	39	4.81	10	< 1	0.06	10	2.30	845
M695684	205 276	< 5	< 0.2	2.12	22	10	< 0.5	< 2	3.77	0.5	22	116	40	4.72	10	< 1	0.03	< 10	2.44	850
M695685	205 276	< 5	< 0.2	1.72	20	30	< 0.5	< 2	2.84	0.5	22	120	41	4.72	10	< 1	0.03	< 10	1.95	770
M695686	205 276	< 5	< 0.2	1.86	64	40	< 0.5	< 2	3.51	0.5	21	120	39	4.57	10	< 1	0.07	< 10	1.88	835
M695687	205 276	< 5	< 0.2	1.69	8	20	< 0.5	< 2	2.84	0.5	23	111	32	4.56	10	1	0.03	< 10	1.84	815
M695688	205 276	< 5	< 0.2	1.60	10	30	< 0.5	< 2	2.47	0.5	23	108	35	4.64	10	< 1	0.03	< 10	1.73	735
M695689	205 276	< 5	< 0.2	1.96	18	30	< 0.5	< 2	3.10	0.5	23	123	37	4.93	10	< 1	0.03	< 10	2.25	915
M695690	205 276	< 5	< 0.2	2.38	44	10	< 0.5	< 2	3.69	0.5	22	113	31	4.58	10	< 1	0.02	< 10	2.15	900
M695691	205 276	< 5	< 0.2	1.74	66	20	< 0.5	< 2	2.70	0.5	26	105	25	4.42	10	< 1	0.03	< 10	1.83	700
M695692	205 276	< 5	< 0.2	2.18	118	30	< 0.5	< 2	3.10	0.5	27	114	39	4.64	10	< 1	0.03	< 10	2.18	945
M695693	214 229	1220	9.0	2.96	138	10	< 0.5	< 2	0.73	18.0	32	78	6910	10.90	10	10	0.73	< 10	1.72	385
M695694	214 229	7300	54.4	1.41	852	10	< 0.5	Intf*	1.03	85.0	145	40	>10000	>15.00	20	14	0.23	< 10	0.89	500
M695695	205 276	< 5	< 0.2	2.22	134	150	0.5	< 2	3.60	0.5	19	32	55	4.20	10	< 1	0.13	30	1.71	725
M695696	205 276	< 5	< 0.2	1.75	58	140	< 0.5	< 2	3.00	0.5	21	29	29	4.29	10	< 1	0.09	20	1.52	640
M695697	205 276	< 5	< 0.2	2.16	234	310	0.5	< 2	3.44	0.5	19	23	38	3.98	10	< 1	0.17	30	1.53	710
M695698	205 276	< 5	< 0.2	2.16	76	180	0.5	< 2	3.48	0.5	15	10	46	4.25	10	< 1	0.12	40	1.71	865
M695699	205 276	< 5	< 0.2	2.16	150	180	0.5	< 2	4.44	0.5	19	6	45	4.68	10	< 1	0.12	30	1.69	915
M695700	205 276	< 5	< 0.2	0.61	100	70	0.5	< 2	4.99	0.5	17	20	34	4.42	< 10	5	0.08	30	2.02	950

* INTERFERENCES: Cu on Bi and P

⊗ - Control Sample

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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CERTIFICATE OF ANALYSIS A9743291

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
M695678	205 276	< 1	0.06	109	1820	20	< 2								
M695679	205 276	< 1	0.10	124	2050	10	< 2	9	194	0.18	< 10	< 10	109	< 10	114
M695680	205 276	< 1	0.07	96	1700	20	< 2	3	161	0.27	< 10	< 10	71	< 10	70
M695681	205 276	< 1	0.07	101	1870	18	< 2	8	203	0.19	< 10	< 10	116	< 10	126
M695682	205 276	< 1	0.09	108	1940	14	< 2	9	225	0.19	< 10	< 10	129	< 10	108
M695683	205 276	< 1	0.04	88	2030	18	< 2	8	204	0.15	< 10	< 10	111	< 10	100
M695684	205 276	< 1	0.06	100	1910	14	< 2	8	233	0.18	< 10	< 10	118	< 10	72
M695685	205 276	< 1	0.05	89	1930	12	< 2	8	238	0.11	< 10	< 10	102	< 10	94
M695686	205 276	< 1	0.05	85	1890	12	< 2	8	192	0.08	< 10	< 10	93	< 10	48
M695687	205 276	< 1	0.05	97	1960	12	< 2	7	224	0.09	< 10	< 10	99	< 10	96
M695688	205 276	< 1	0.06	110	1980	12	< 2	7	171	0.11	< 10	< 10	99	< 10	80
M695689	205 276	< 1	0.05	97	2000	12	< 2	6	174	0.14	< 10	< 10	93	< 10	88
M695690	205 276	< 1	0.06	106	1850	8	< 2	8	199	0.16	< 10	< 10	113	< 10	130
M695691	205 276	< 1	0.06	135	2030	14	< 2	8	255	0.13	< 10	< 10	107	< 10	110
M695692	205 276	2	0.05	138	1850	18	< 2	6	183	0.13	< 10	< 10	94	< 10	70
M695693	214 229	< 1	0.08	4	740	548	< 2	7	233	0.15	< 10	< 10	102	< 10	110
M695694	214 229	5	0.04	6	Intf*	3220	26	13	17	0.07	< 10	< 10	21	< 10	5160
M695695	205 276	< 1	0.05	54	2320	28	< 2	4	18	0.02	< 10	< 10	13	< 10	>10000
M695696	205 276	< 1	0.08	55	2380	18	< 2	5	463	< 0.01	< 10	< 10	109	< 10	114
M695697	205 276	< 1	0.04	51	2120	14	< 2	7	356	0.09	< 10	< 10	112	< 10	52
M695698	205 276	< 1	0.04	24	2560	14	< 2	4	415	< 0.01	< 10	< 10	113	< 10	84
M695699	205 276	< 1	0.04	14	2590	18	< 2	3	392	< 0.01	< 10	< 10	128	< 10	130
M695700	205 276	< 1	0.09	29	2180	8	< 2	3	339	< 0.01	< 10	< 10	96	< 10	102
								5	307	< 0.01	< 10	< 10	42	< 10	80

* INTERFERENCES: Cu on Bi and P

CERTIFICATION:

Handwritten signature: Hans Buehler



Chemex Labs Ltd.

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To: HUDSON BAY EXPLORATION & DEVELOPMENT CO. LTD.
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* PLEASE NOTE

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SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
M695230	205 276	< 5	< 0.2	1.75	10	310	0.5	< 2	2.14	< 0.5	9	45	11	2.92	10	< 1	0.25	30	1.23	345
M695231	205 276	< 5	< 0.2	1.69	10	340	0.5	< 2	2.53	< 0.5	9	44	13	3.12	10	< 1	0.23	30	1.28	355
M695232	205 276	< 5	< 0.2	1.68	6	330	0.5	< 2	2.49	< 0.5	8	41	11	2.91	10	< 1	0.21	20	1.27	345
M695233	205 276	< 5	< 0.2	1.68	10	180	0.5	< 2	2.38	< 0.5	8	39	20	2.87	10	< 1	0.22	20	1.25	335
M695234	205 276	< 5	< 0.2	1.71	10	360	0.5	< 2	2.51	< 0.5	8	37	12	2.81	10	< 1	0.22	20	1.30	330
M695235	205 276	< 5	< 0.2	1.90	24	410	0.5	< 2	3.63	0.5	12	63	18	3.08	10	< 1	0.19	20	1.54	440
M695236	205 276	< 5	< 0.2	2.45	16	250	0.5	< 2	4.40	0.5	16	119	38	4.23	10	< 1	0.17	30	2.21	695
M695237	205 276	< 5	< 0.2	2.33	16	260	0.5	< 2	4.25	0.5	19	125	39	4.02	10	< 1	0.17	30	2.15	685
M695238	205 276	< 5	< 0.2	2.38	26	290	0.5	< 2	4.99	0.5	18	119	37	4.09	10	< 1	0.15	30	2.22	750
M695239	205 276	< 5	< 0.2	2.48	26	230	0.5	< 2	4.52	0.5	17	119	33	4.01	10	< 1	0.15	30	2.33	750
M695240	205 276	< 5	< 0.2	2.63	22	230	0.5	< 2	3.79	0.5	18	127	37	4.32	10	< 1	0.19	30	2.36	740
M695241	205 276	< 5	< 0.2	2.43	16	230	0.5	< 2	4.49	0.5	14	125	29	3.81	10	< 1	0.18	30	2.22	775
M695242	205 276	< 5	< 0.2	2.50	16	180	0.5	< 2	4.46	0.5	16	127	31	4.06	10	< 1	0.18	30	2.24	825
M695243	205 276	< 5	< 0.2	2.35	16	370	0.5	< 2	5.12	0.5	18	120	32	3.88	10	< 1	0.13	30	2.28	850
M695244	205 276	< 5	< 0.2	2.72	36	340	0.5	< 2	4.62	0.5	19	134	33	4.29	10	< 1	0.17	20	2.54	875
M695245	205 276	< 5	< 0.2	2.28	18	280	0.5	< 2	4.33	0.5	19	129	41	4.42	10	< 1	0.14	10	2.17	780
M695246	205 276	< 5	< 0.2	2.24	14	210	0.5	< 2	4.09	0.5	18	128	39	4.24	10	< 1	0.16	10	2.08	670
M695247	205 276	< 5	< 0.2	2.25	16	110	0.5	< 2	4.07	0.5	17	123	38	3.99	10	< 1	0.14	10	2.15	655
M695248	205 276	< 5	< 0.2	2.32	46	140	0.5	< 2	3.43	0.5	16	128	30	3.84	10	< 1	0.12	10	2.27	635
M695249	205 276	< 5	< 0.2	2.31	20	230	0.5	< 2	4.16	1.0	18	125	40	4.17	10	< 1	0.09	10	2.32	690
M695250	214 229	7120	56.6	1.48	972	10	< 0.5	Intf*	1.07	90.0	150	63	>10000	>15.00	10	12	0.23	< 10	0.92	535
M695601	205 276	< 5	< 0.2	1.38	12	180	0.5	< 2	2.74	0.5	24	29	56	3.99	< 10	43	0.24	50	1.23	755
M695602	205 276	< 5	< 0.2	1.01	160	60	0.5	< 2	4.85	0.5	17	26	51	3.97	< 10	11	0.19	30	1.90	660
M695603	205 276	< 5	< 0.2	1.45	22	240	0.5	< 2	3.74	0.5	26	42	47	4.31	< 10	3	0.16	40	1.06	820
M695604	205 276	< 5	< 0.2	1.30	30	50	1.0	< 2	3.00	0.5	28	28	42	3.81	< 10	1	0.40	30	1.02	420
M695605	205 276	< 5	< 0.2	1.14	42	40	1.0	< 2	2.55	< 0.5	19	32	28	3.76	< 10	< 1	0.42	20	0.93	315
M695606	205 276	< 5	< 0.2	1.25	42	50	0.5	< 2	3.93	0.5	17	42	39	4.42	< 10	< 1	0.21	30	1.28	675
M695607	205 276	< 5	< 0.2	1.36	82	40	1.0	< 2	2.10	0.5	23	34	36	4.01	< 10	1	0.49	20	0.66	285
M695608	205 276	< 5	< 0.2	1.41	8	210	0.5	< 2	1.10	< 0.5	10	37	37	2.68	< 10	< 1	0.22	30	0.80	415
M695609	205 276	< 5	< 0.2	1.10	2	160	< 0.5	< 2	0.79	0.5	11	39	40	2.86	< 10	< 1	0.22	20	0.83	240
M695610	205 276	< 5	< 0.2	0.73	< 2	90	0.5	< 2	1.29	0.5	12	51	24	3.56	< 10	< 1	0.09	40	0.51	885
M695611	214 229	940	9.0	3.14	170	20	< 0.5	< 2	0.77	19.0	36	106	7180	11.45	10	11	0.80	< 10	1.82	440
M695612	214 229	125	2.2	4.07	60	50	< 0.5	< 2	1.25	4.5	23	117	1485	9.04	10	< 1	0.81	< 10	1.72	410
M695613	205 276	< 5	< 0.2	0.54	2	50	0.5	< 2	1.01	< 0.5	12	47	35	3.27	< 10	< 1	0.12	40	0.74	675
M695614	205 276	< 5	< 0.2	0.79	4	60	0.5	< 2	1.01	0.5	15	52	32	3.71	< 10	< 1	0.08	40	1.33	435
M695615	205 276	< 5	< 0.2	1.73	14	120	1.0	< 2	1.41	0.5	15	15	27	5.00	< 10	< 1	0.10	40	0.77	660
M695616	205 276	< 5	< 0.2	0.41	10	220	< 0.5	< 2	>15.00	2.0	8	6	33	2.22	< 10	< 1	0.14	< 10	0.40	685
M695617	205 276	< 5	< 0.2	0.59	16	160	< 0.5	< 2	14.00	2.0	7	8	31	1.81	< 10	< 1	0.11	< 10	0.34	850
M695618	205 276	< 5	< 0.2	0.62	26	80	< 0.5	< 2	7.12	1.5	9	12	39	4.42	< 10	< 1	0.15	< 10	0.90	590
M695619	205 276	< 5	< 0.2	0.52	10	210	< 0.5	< 2	12.10	1.5	7	6	24	2.88	< 10	< 1	0.17	< 10	0.63	755

* INTERFERENCES: Cu on Bi and P

⊘ - Control Sample

CERTIFICATION:

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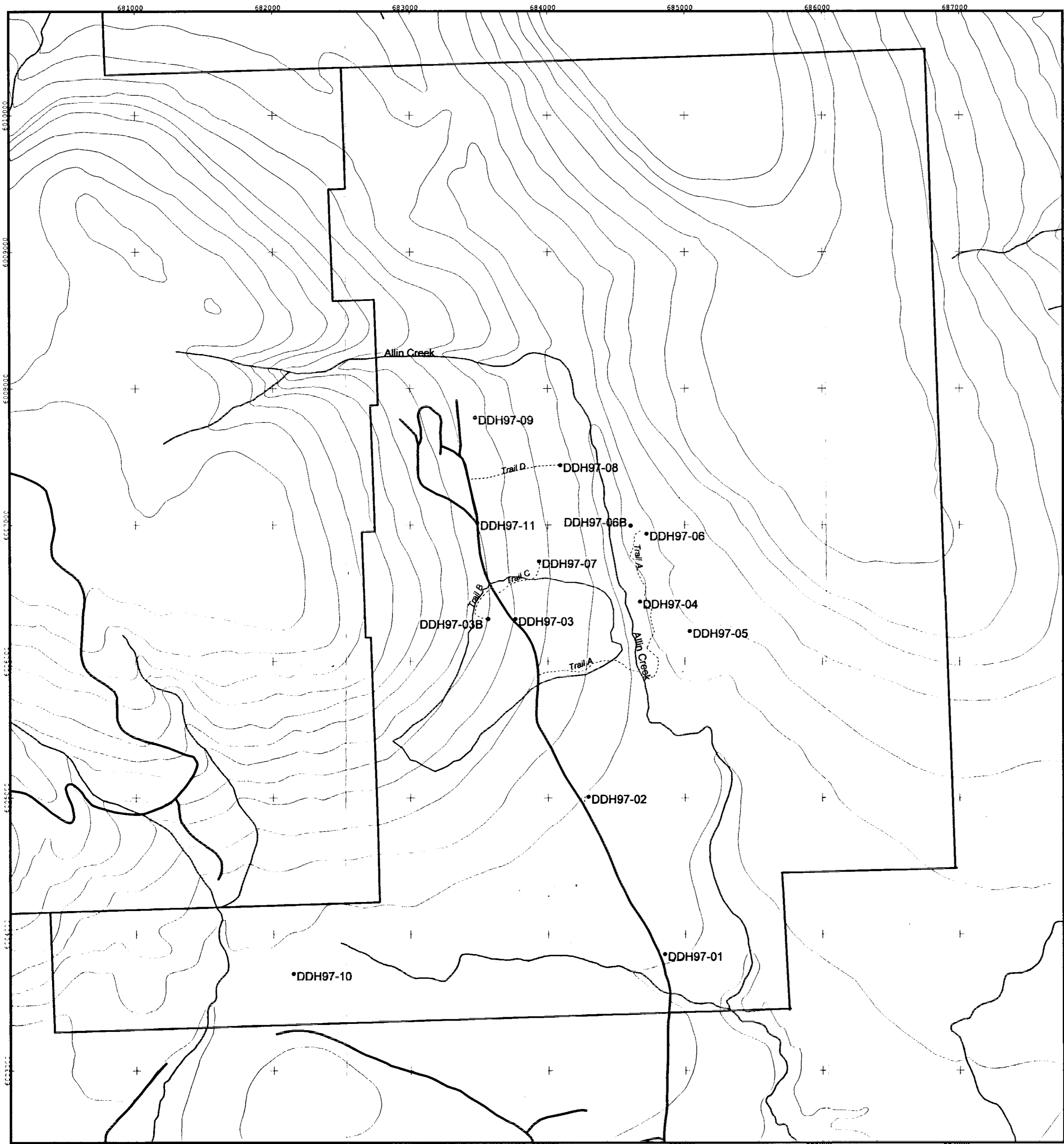
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SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
M695230	205	276	< 1	0.04	23	1680	16	< 2	1	198	< 0.01	< 10	< 10	39	< 10	58
M695231	205	276	< 1	0.04	23	1680	10	< 2	1	232	< 0.01	< 10	< 10	38	< 10	62
M695232	205	276	< 1	0.04	21	1630	10	< 2	1	233	< 0.01	< 10	< 10	38	< 10	52
M695233	205	276	< 1	0.03	20	1640	8	< 2	1	209	< 0.01	< 10	< 10	40	< 10	74
M695234	205	276	< 1	0.03	20	1620	12	< 2	1	233	< 0.01	< 10	< 10	39	< 10	56
M695235	205	276	< 1	0.03	41	1730	6	< 2	3	342	< 0.01	< 10	< 10	58	< 10	46
M695236	205	276	< 1	0.03	74	2060	6	< 2	6	408	< 0.01	< 10	< 10	105	< 10	58
M695237	205	276	< 1	0.04	81	2130	2	< 2	7	358	< 0.01	< 10	< 10	110	< 10	58
M695238	205	276	< 1	0.03	78	2150	8	< 2	8	400	< 0.01	< 10	< 10	108	< 10	68
M695239	205	276	< 1	0.03	76	2160	8	< 2	8	337	< 0.01	< 10	< 10	108	< 10	66
M695240	205	276	< 1	0.03	79	1970	16	< 2	6	292	< 0.01	< 10	< 10	112	< 10	128
M695241	205	276	< 1	0.03	71	2210	6	< 2	7	344	< 0.01	< 10	< 10	106	< 10	52
M695242	205	276	< 1	0.02	75	2250	10	< 2	7	341	< 0.01	< 10	< 10	110	< 10	168
M695243	205	276	< 1	0.03	82	2260	2	< 2	7	380	< 0.01	< 10	< 10	109	< 10	58
M695244	205	276	1	0.03	77	2330	10	< 2	8	351	< 0.01	< 10	< 10	120	< 10	86
M695245	205	276	< 1	0.03	85	2350	2	< 2	8	304	0.01	< 10	< 10	119	< 10	54
M695246	205	276	< 1	0.03	86	2170	8	< 2	8	270	0.08	< 10	< 10	118	< 10	50
M695247	205	276	< 1	0.02	72	2070	4	< 2	8	254	0.12	< 10	< 10	115	< 10	54
M695248	205	276	< 1	0.01	69	2090	10	< 2	9	207	0.14	< 10	< 10	120	< 10	50
M695249	205	276	< 1	0.02	88	2120	8	< 2	8	264	0.15	< 10	< 10	117	< 10	66
M695250	214	229	5	0.05	7	Intf*	3250	14	5	20	0.02	< 10	< 10	14	< 10	>10000
M695601	205	276	< 1	0.16	39	2720	12	2	8	489	< 0.01	< 10	< 10	62	< 10	86
M695602	205	276	< 1	0.07	24	2050	10	< 2	3	605	< 0.01	< 10	< 10	27	< 10	78
M695603	205	276	< 1	0.11	40	2510	8	< 2	5	468	< 0.01	< 10	< 10	75	< 10	116
M695604	205	276	5	0.08	44	2690	14	2	3	256	< 0.01	< 10	< 10	36	< 10	62
M695605	205	276	5	0.08	27	2460	18	< 2	2	228	< 0.01	< 10	< 10	26	< 10	38
M695606	205	276	4	0.06	27	2460	12	< 2	4	377	< 0.01	< 10	< 10	50	< 10	106
M695607	205	276	8	0.08	31	2940	14	< 2	2	208	< 0.01	< 10	< 10	28	< 10	68
M695608	205	276	< 1	0.10	33	1990	2	< 2	8	130	0.12	< 10	< 10	52	< 10	68
M695609	205	276	< 1	0.13	39	1760	4	< 2	7	137	0.20	< 10	< 10	75	< 10	66
M695610	205	276	< 1	0.15	27	2280	6	2	9	208	0.10	< 10	< 10	107	< 10	130
M695611	214	229	< 1	0.09	3	830	576	< 2	14	19	0.08	< 10	< 10	23	< 10	5510
M695612	214	229	1	0.13	7	800	158	< 2	13	33	0.08	< 10	< 10	20	< 10	688
M695613	205	276	< 1	0.06	22	1710	2	< 2	7	92	0.12	< 10	< 10	108	< 10	92
M695614	205	276	< 1	0.19	31	1850	2	< 2	4	141	0.17	< 10	< 10	130	< 10	82
M695615	205	276	< 1	0.31	15	1740	6	2	10	290	0.14	< 10	< 10	117	< 10	140
M695616	205	276	< 1	0.07	14	640	2	< 2	7	990	< 0.01	< 10	< 10	15	< 10	60
M695617	205	276	3	0.06	13	1290	2	< 2	6	669	< 0.01	< 10	< 10	19	< 10	48
M695618	205	276	12	0.09	43	750	6	< 2	8	364	< 0.01	< 10	< 10	56	< 10	132
M695619	205	276	< 1	0.08	15	620	2	< 2	9	696	< 0.01	< 10	< 10	13	< 10	58

* INTERFERENCES: Cu on Bi and P

CERTIFICATION: *[Signature]*

Appendix 3



25,381

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT



ALLIN PROPERTY

Trails/Drillhole Locations

093L.019/020

UTM Zone 9
NAD 1983

- Claim Boundary
- Diamond Drillholes Locations
- ATV Trails (1 to 1.5m wide)
- Existing Logging/Exploration Roads
- Creeks
- Clearcut



1:20,000

December 22, 1997

Hudson Bay Exploration and
Development Co. Ltd.