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**Alexis Property,
Nunavut Mining District**

***Report on Exploration Activities
2004 Field Program***

(Geochemical Sampling)

Portions of NTS 1:50,000 sheets 46K (4), 46L (13), 46M (4,5)

BHP Billiton Prospecting Permits 3850-3854, 3857

Property centred on 87°W, 66°30'N

*Work conducted
July 2004*

All maps and coordinates are in Datum NAD83, Spheroid GRS80



Michael Grimley
January 2004

BHPB CR 10866

This report has been examined and
approved as to technical worth
under Section 31 and Section 6
& 7 of schedule II of the Canada
Mining Regulations and valued in
the amount of \$_____

Date_____ Chief _____

Summary

Prospecting permits comprising the 164,573-acre (666km²) Alexis properties were granted to BHP Billiton Diamonds Inc. on 1st February 2004. The two properties are located 92km northwest and 47km south-southeast from the community of Repulse Bay and fall on NTS 1:250,000 mapsheets 46K, 46L and 46M.

Heywood (1967) first mapped the northeastern district of Keewatin and southern Melville Peninsular area at a scale of 1:506,880. Subsequent mapping occurred in the area recently at more detailed scales (e.g. Sandeman et al., 2003; Sandeman, 2004). Broad geophysical data was recorded in the early 1970s. The Geological Survey of Canada conducted a coarse scale aeromagnetic survey between 1/6/73 and 31/8/74. Pervious mineral exploration in the area has been primarily focused on gold and base metals (plus uranium) and was centered on metasediments and ironstones to the north of the Alexis project, on the Melville Peninsula.

The exploration target for the Alexis project is diamonds hosted in kimberlite or lamproite pipes. The region extending from Rankin Inlet in the south to Igloolik and up to Northern Baffin Island has become a major focus for diamond exploration following the discovery in 2002 of the diamondiferous AV-1 kimberlite on the northern Melville Peninsula. Subsequently BHP Billiton announced the discovery of nine weakly to moderately diamondiferous kimberlites on the 1.04M acre Qilalugaq Project which covers the Rae Ismuthus directly north of the community of Repulse Bay. These discoveries sparked a major permitting rush in February 2004 throughout Nunavut.

BHP Billiton has a 50:50 contributing joint venture with Stornoway Diamond Corporation on the Alexis project which comprises claims and prospecting permits surrounding the Qilalugaq Project. BHP Billiton also holds 100% interests in the Qilalugaq project (east of the Alexis projects) and in the Area 0 claim block (approximately 100km of the Alexis permits borders the Ukkusiksalik National Park). Further north Stornoway Diamond Corporation (in joint venture with BHP Billiton) is conducting intensive exploration on and around several kimberlitic bodies discovered on the northern Melville Peninsula. On the southern side of the Ukkusiksalik National Park, to the southwest of the Alexis properties, Peregrine Diamonds (post merger with Dunsmuir Ventures) are following several well-defined indicator mineral trains on the Nanuq property.

In the summer of 2004 BHP Billiton collected 84 samples on the Alexis properties at a nominal sample spacing of 3x3km. The preferred sample media was unmodified basal till, however marine reworking and washing plus the presence of overlying marine sediments in coastal areas may have affected the distribution of indicator minerals in these areas. At approximately 25% of planned sample sites, especially near the coast, other materials such as beaches, glaciofluvial/esker and marine sediments were collected. Several of the till samples also displayed evidence of washing and marine modification.

The samples were processed for kimberlite indicator minerals. Examination of heavy mineral concentrates failed to identify any kimberlitic minerals or minerals indicative of gold or base metal mineralisation. Three samples collected from Beach Point on the southern side of Repulse Bay returned high concentrations of olivine and lesser amounts of low chrome diopside, however

microprobe analysis revealed these to be non-kimberlitic and they are probably related to mafic rocks. The lack of anomalous concentrations of sulphide grains (particularly chalcopyrite) suggests that the mafic rocks are unmineralised.

Although these initial results are negative, there remains a great deal of information to be received from nearby and adjoining properties which may influence the prospectivity of the Alexis Project. Depending on these results a broad-scale fixed-wing aeromagnetic survey may be warranted to assist in direct detection of any kimberlitic bodies, particularly in areas near the coast where sampling of beach and glaciofluvial material is likely to have been least effective owing to marine washing and reworking of the original glacial material or deposition of new marine sediments.

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1. Introduction

The area of interest is bounded by latitude 66° N to 67°30' N and longitude 85°45' W to 88° W covering NTS 1:50,000 sheets 46K (4), 46L (13), 46M (4,5). The Alexis (164,573 acres, 666km²), properties were granted to BHP Billiton Diamonds Inc. on 1st February 2004. All 2004 fieldwork was conducted out of BHP Billiton's Qilalugaq camp which is located approximately 13km NNW of the Hamlet of Repulse Bay. This report documents the reconnaissance till sampling program that was conducted in July of 2004.

The first diamond exploration work by BHP Billiton occurred in 2000 with a very coarse spaced (1 sample per 400km²) regional till, esker, stream and beach sampling program in the area which was conducted as part of a much larger program which eventually led to the discovery of the nearby Qilalugaq kimberlitic bodies. Results from samples collected in the vicinity of the Alexis properties in 2000 were negative for kimberlite indicator minerals.

The Alexis permits were acquired owing to their proximity to the afore mentioned projects and the previously low sample density which BHP Billiton has in the area.

The sample spacing on these permit blocks was reduced to approximately 1 per 9km² (nominal sample spacing of 3x3km) in the summer of 2004 through collection of 84 samples (mostly till, but also beach, glaciofluvial, marine and stream sediments). The samples were processed for kimberlite indicator minerals, however examination of heavy mineral concentrates failed to identify any kimberlitic minerals or minerals indicative of gold or base metal mineralisation. A discussion of results is provided below. A statement of expenditures is provided in Appendix 1.

2. Location and Access

The Alexis permits are divided into 2 properties located 92km northwest and 47km south-southeast from the community of Repulse Bay. Access to the properties for sampling in summer 2004 was with a Great Slave Helicopters Hughes 500D helicopter based at the Qilalugaq camp, however it is possible that the properties may be accessed by a fixed-wing aircraft equipped with either floats or tundra tires although this wasn't attempted in 2004.

Calm Air and Keetwain Air provide regular commercial air service to Repulse Bay and the community also has barge service. No aircraft are permanently based in Repulse Bay. All helicopter charters were through Great Slave Helicopters and mobilized from Yellowknife. Fixed-wing support to transport samples south from Repulse Bay was provided by Calm Air based in Churchill, Manitoba. Limited services such as groceries and some accommodation is available in Repulse Bay, however as there is no bulk fuel available. All fuel for the summer program was flown into the Qilalugaq camp on an ice strip with a Hercules aircraft during the previous winter.

The climate on the properties is typical of the Arctic with temperatures averaging -25 to -30°C in the winter months and around 5-10°C during the short (6-8 weeks) summer. Break-up generally

occurs around June and freeze-up in September-October. Fog is often a problem, particularly in summer and fall near the coast and where areas of higher elevation reduce visibility and ceiling clearances. This was a major problem when accessing the northern Alexis property close to Committee Bay.

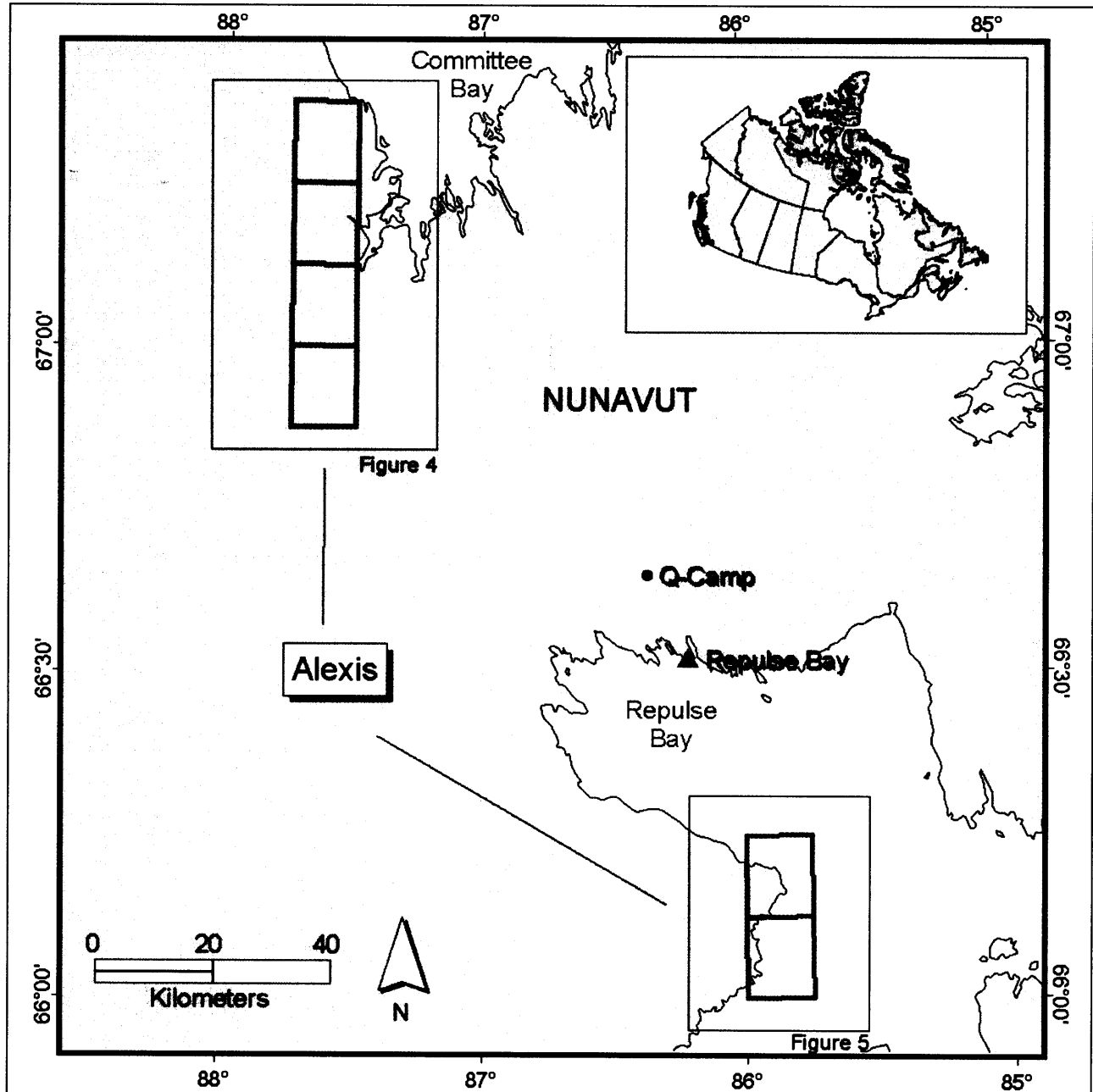


Figure 1: General Location Map

3. Land Status

BHPB applied for and was granted 6 Crown Prospecting Permits (Table 1) on 1st February 2004. All permits are subject to a 50:50 joint venture between BHP Billiton Diamonds Inc. (operator) and Stornoway Diamond Corporation. These permits total 164,573 acres (666km²) and are reported together but are divided into two property areas (refer Figure 1 and Table 1).

Permit #	NTS Sheet	Area (acres)	Granted	Anniversary	Year 1 Assessment
3850	46K / 04 NW	11,025.00	1-Feb-04	31-Jan-05	\$1,102.50
3851	46K / 04 SW	4,048.00	1-Feb-04	31-Jan-05	\$404.80
3852	46L / 13 NE	37,760.00	1-Feb-04	31-Jan-05	\$3,776.00
3853	46M / 04 NE	37,376.00	1-Feb-04	31-Jan-05	\$3,737.60
3854	46M / 04 SE	37,376.00	1-Feb-04	31-Jan-05	\$3,737.60
3857	46M / 05 SE	36,988.00	1-Feb-04	31-Jan-05	\$3,698.80
		164,573.00			\$16,457.30

Table 1: BHPB Prospecting Permits

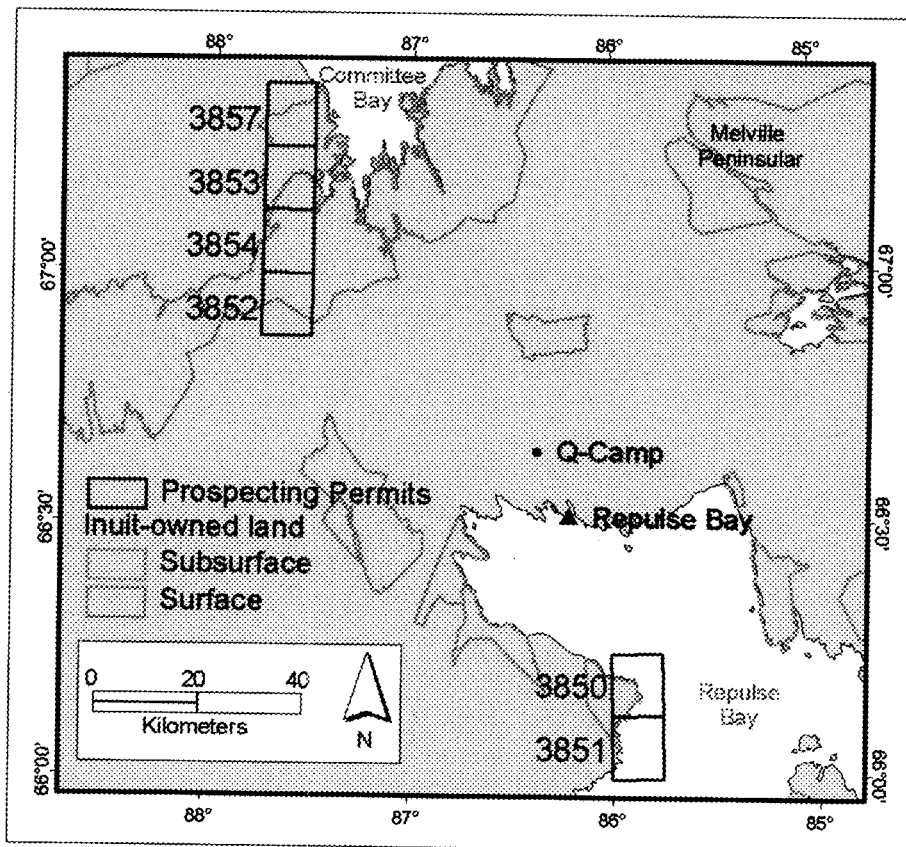


Figure 2: Location of Prospecting Permits

4. Regional Geology

The area of interest is located entirely within the Archaean-aged Rae Province, one of three sub-provinces within the Churchill structural Province in central Nunavut Territory, Canada. The Alexis properties are on the northern and southern edges of the Rae Isthmus, also known as the Committee Bay lowlands, which connects the Melville Peninsular to the mainland, between Committee Bay and Repulse Bay (Figure 1). Rock types are continuous across the isthmus, generally striking in a NE-SW direction.

Detailed geoscience information for the area of interest is rare and data is limited to broad regional reconnaissance mapping (eg Hoffman, 1988; Jackson and Berman, 2000). However the discovery of kimberlites in the Rae Province has sparked diamond exploration activity in the region.

Churchill Province

The Churchill Structural Province is comprised of a 1.9-1.8 Ga collision zone referred to as the Trans-Hudson Orogen and a composite Archaean craton. This craton is further subdivided into the Burwell, Rae and Hearne provinces (Hoffman, 1988). The Baffin Orogen separates the Burwell and Rae Provinces whereas the Snowbird Tectonic Zone separates the Hearne and Rae provinces. The STZ is a geophysically defined Palaeoproterozoic suture zone of mylonite with layered gabbro-anorthosite-pyroxenite many kilometres wide (Hoffman, 1988).

The Churchill Province was the nucleus for the Laurentian supercontinent in the early to mid-Proterozoic (Hoffman, 1988). About 2.0 – 1.9 Ga during the Thelon Orogeny, the Slave Province was accreted onto its western margin causing easterly subduction of oceanic crust beneath a continental arc. Fragments of oceanic lithosphere from the south were later welded on during subsequent collisional events. By 1.9 – 1.8 Ga, the Superior Province collided with the Churchill Province to the north. This collision formed the Trans-Hudson Orogen, which extends from the central United States across Manitoba and Saskatchewan, and northeast into Hudson's Bay and Baffin Island. Through the centre of the Churchill Province, a major structural discontinuity running NE-SW called the Snowbird Tectonic Zone subdivides the Churchill Province into the Rae (to the north) and Hearne Provinces (to the south).

Rae Province

The Rae Province amalgamated with the Hearne and Burwell Provinces between 1.97 Ga and 1.82 Ga to form the Churchill Province. The Rae province consists of basement and subordinate infolded keels of Early Proterozoic platformal sedimentary cover. In the central part and northeast arm of the Rae Province, the Archean rocks consist of felsic gneisses and relatively narrow belts of greenschist to lower amphibolite-grade volcanic and sedimentary strata. Northwest of the Baker basin, Archean supracrustal belts are derived from basalt, rhyolite, dacite, and komatiite, and sediments including conglomerate, quartzite, iron formation and greywacke. U-Pb zircon ages of the felsic gneisses range from 3.3 – 2.8 Ga, which experienced two episodes of felsic magmatism at 2.8 and 2.6 Ga (Hoffman, 1988; Sanderman, 2001).

Committee Belt

The Committee Belt is one of numerous Archean supracrustal belts within the Rae Province and extends across the Melville Peninsular to northern Baffin Island, and possibly as far as northeastern Greenland (Sanderman, 2001). Exact extents and boundaries of the Committee Belt are largely uncertain but it includes the area of interest.

Palaeozoic rocks

The youngest rock units preserved in the area occur on Southampton Island, to the southeast of the properties. These flat-lying Cambrian-Silurian carbonates and siliciclastics are part of down-dropped fault blocks flanking the Melville Peninsula (Dredge, 2002). Uplift and erosion occurred during the Devonian and Cretaceous.

Surficial Geology

Bedrock type, landforms, glacial ice-flow patterns and erosion are closely related on the southern Melville Peninsular (Dredge, 2002) and surrounding areas. Rock type influences the texture and composition of tills accumulated in the area with granitic and gneissic rock types generating sandy till, and marble and limestone forming siltier tills (Dredge, 2002).

Surface materials in the project area generally include silty sand till derived from local granitic rocks, locally clayey silt till derived from offshore carbonate rocks, glaciomarine deposits and till reworked by marine action, and numerous raised marine beaches closer to coastal areas. Glaciolfluvial material and eskers are rare. There are areas of glacially scoured streamlined bedrock forms (mostly gneiss), coastal and near coastal areas have wave washed bedrock outcrop between areas of marine gravels and raised beaches. Till is either in the form of thick till blanket (which may be overlain by glaciomarine material in areas), or a patchy discontinuous till veneer interspersed with bedrock outcrop (Dredge, 2000; Dredge, 2002).

Property Geology

The surficial materials sampled in the Alexis prospecting areas are underlain entirely by undifferentiated Archean gneiss. BHP Billiton carried out no geological mapping as part of their exploration activities during the 2004 field season; all of the information about the underlying geology was obtained from publicly available maps and reports.

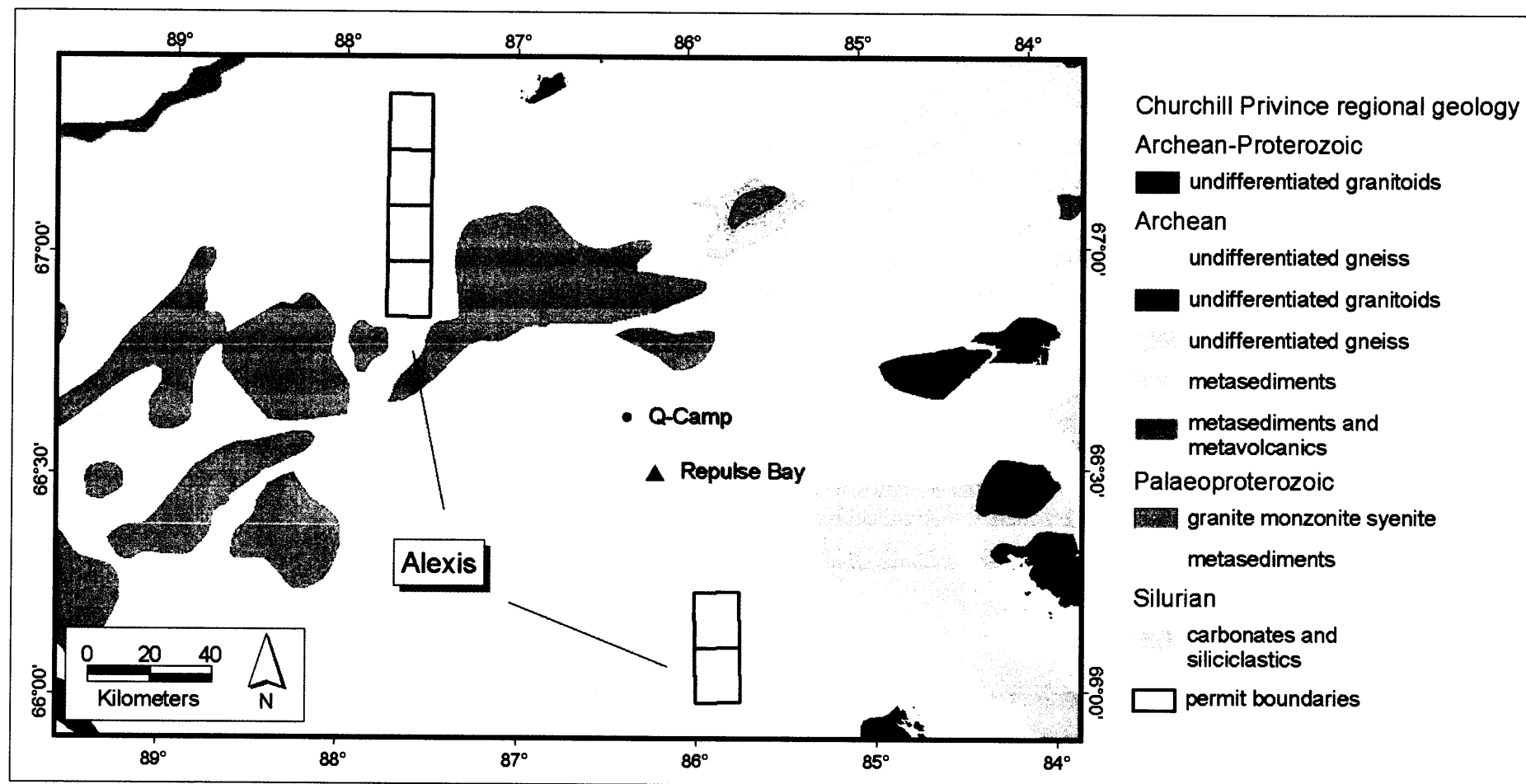


Figure 3: Regional Geology (modified from Hoffman, 1998)

5. Exploration History

Geological mapping, geophysical surveys and exploration have been carried out to various degrees over the two areas described in this report. Geological mapping and geophysical surveys are only at very broad scales or over isolated exploration targets. Previous exploration in the area has been primarily focused on gold and base metals (plus uranium) along prospective metasedimentary and metavolcanic belts (e.g. Marmont, 1995). Diamond exploration has taken place in the area, especially on the Melville Peninsula immediately to the northeast of the properties. The Melville Peninsula and Rae Isthmus are currently the targets of intense diamond exploration activity. The specific areas of interest addressed in this report have not been the targets of significant exploration in the past.

1967	GSC	Heywood (1967) first mapped the northeastern district of Keewatin and southern Melville Peninsular area at a scale of 1:506,880. Subsequent mapping by the GSC and other exploring companies has occurred in the area at scales of less than 1:100,000 scale (e.g. GSC open file 4190 and 1794).
1970	King Resources Company	Aerial photograph interpretation, geochemical sampling, bedrock mapping, target specific ground geophysics and trenching were carried out in an area immediately to the west of the northern Alexis property (Brisbin, 1970). No economic deposits were found in the area which contained a metasedimentary belt intruded by ultramafic rock, despite nickel sulphide concentrations well above normal in the metasediments.
1973		Exploration targeting carving stone (soapstone) has been carried out to the north west of the Alexis property (Murphy, 1973).
1973/ 1974	GSC	Broad geophysical data was recorded over the area in the early 1970s. The Geological Survey of Canada commissioned Geoterrex Ltd., and Northway Survey Corporation Ltd. to fly the Northwest Territories Survey #1 between 1/6/73 and 31/8/74 at a flight height of 305m and a line spacing of 805m in a north-south orientation (GSC, 1973/1974).
1993- 1994	Committee Bay Joint Venture	More recently, the Committee Bay Joint Venture (CBJV) carried out gold exploration immediately to the west of the northern Alexis property (Williamson & Faragher, 1995, Williamson & Freeman, 1994). The exploration included geological mapping, prospecting, geochemical surveys, ground geophysical surveys and drilling totaling 811m. Assays from drill core were as high as 8.58 g/t Au over 2.55m from an auriferous zone within iron formation (Williamson & Faragher, 1995).
1995	Echo Bay Mines Limited – Cyprus Canada Inc.	Multi-gram gold occurrences, hosted by iron formations and/or shears, were identified by the Echo Bay Mines Limited – Cyprus Canada Inc. joint venture while exploring in the area to the west of the Alexis property (Hurley & Williamson, 1996).
1996	CBJV	The CBJV explored the area west of the northern Alexis block for gold using airborne and ground magnetics and VLF-EM surveys together with

		geochemical sampling and diamond drilling (Wyllie & Williamson, 1997). Diamond drill samples graded up to 20.45 g/t Au over 0.89 m.
1997	CBJV	A new gold occurrence (called the 'Shamrock') was discovered in 1997 by the CBJV (Williamson, 1998).

Table 2: Summary of Exploration History.

6. Diamond Exploration Rationale

The association between kimberlites and Archaean age rocks is well established (e.g. Janse, 1985). Archaean age cratonic rocks that contain many distinct structural weaknesses, which may be exploited by kimberlites during emplacement (Kjarsgaard, 1996; Mitchell, 1986), underlie all three properties. Proximity to the kimberlite discoveries at Qilalugaq (BHP Billiton, 2004a; BHP Billiton, 2004b) and prominent KIM trains identified by Peregrine/Dunsmuir on the nearby Nanuq Project (Dunsmuir Ventures, 2004) combined with a possibly inadequate first-pass sample density enhances the exploration potential of the area.

7. Program and Results

All 84 samples (62 till, 16 beach, 4 glaciofluvial/esker, 1 marine and 1 stream sediment) were collected in late July 2004. Samples were collected on a 3x3km grid using a Hughes 500D helicopter and two samplers. The target sample media was unmodified basal till, however other fluvial or marine-modified glacial sediment was collected if till was unavailable, particularly near the coast. At each site a single bag weighing approximately 15kg was collected from a single hole dug with a shovel from surface to a depth of ~30cm. All holes were filled-in once sampling was complete. While the sample was being collected a second person was noting geological information and recording the location. All samples were also double-bagged to increase durability during transport to the laboratory. Samples were ferried by helicopter to Repulse Bay where they were stacked on pallets and flown south to Churchill and then transported by rail and road to Ontario. Sample numbers and locations are shown in Figures 4 and 5 while sample descriptions (including co-ordinates) are in Appendix 2.

All samples were sent to Overburden Drilling Management (ODM) in Nepean, Ontario for processing. ODM uses a modified tabling technique and standard heavy liquid concentration to produce a concentrate for picking. All analytical results (including microprobe data) are in Appendix 2. A description of the techniques employed by ODM is in Appendix 4.

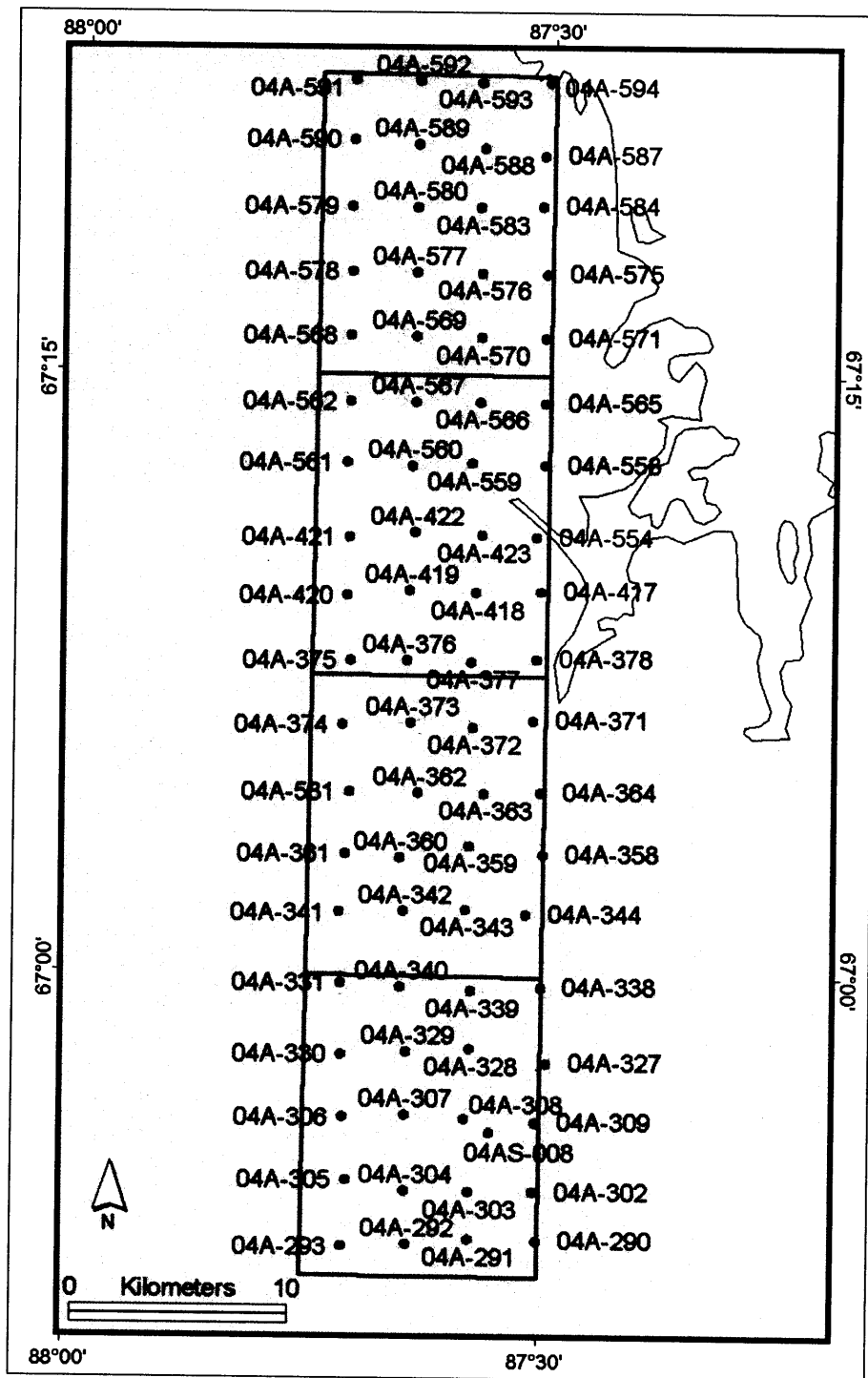


Figure 4: Sample distribution – northern Alexis permits

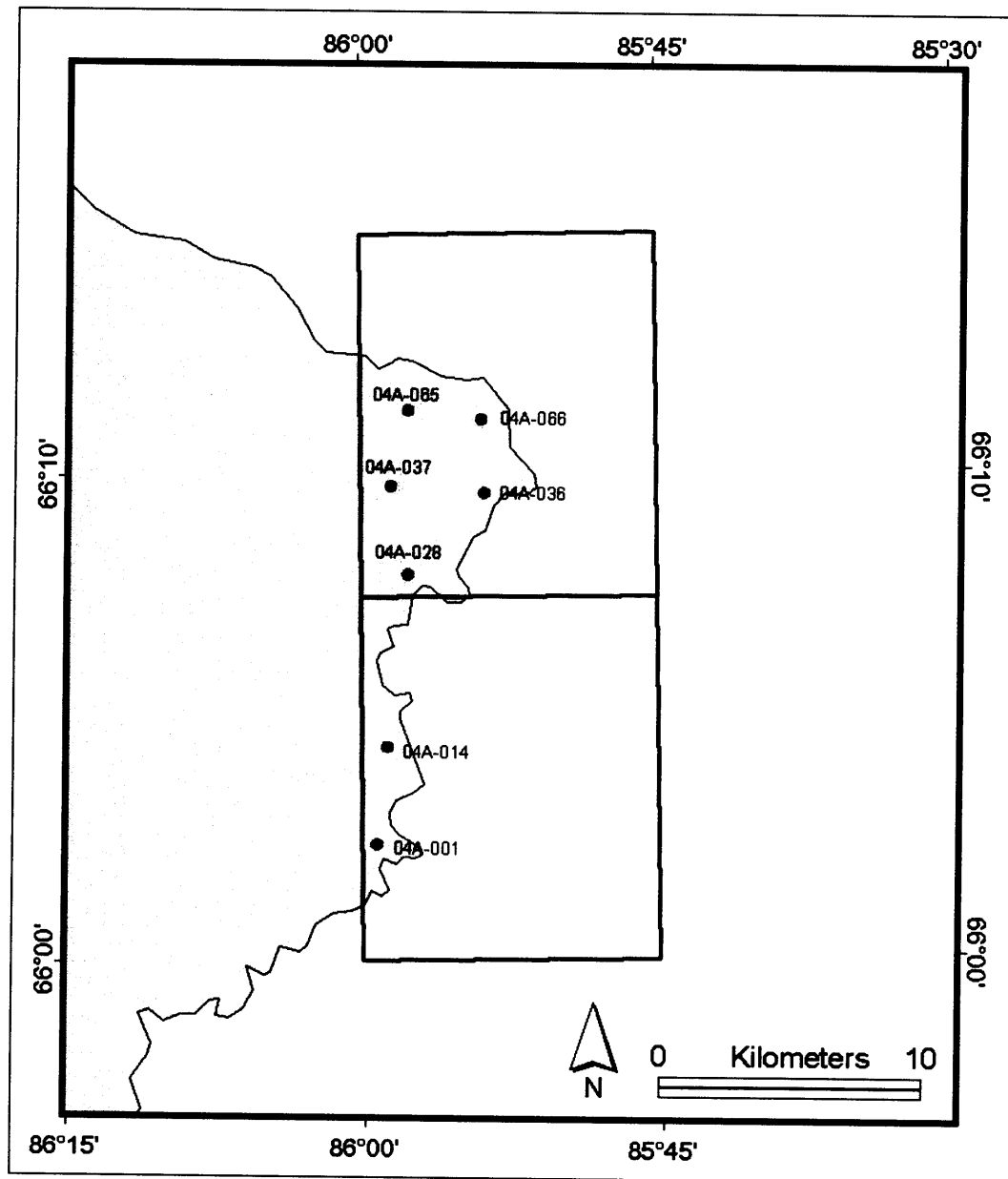


Figure 5: Sample distribution – southern Alexis permits

Examination of heavy mineral concentrates failed to identify any kimberlitic minerals or minerals indicative of gold or base metal mineralisation. Three samples (04A-001, 037 and 065) collected from Beach Point on the southern side of Repulse Bay returned high concentrations of olivine and lesser amounts of low chrome diopside, almost exclusively from the 0.25-0.5mm fraction but also rare grains in the 0.5-1.0mm fraction. Other samples in this area with elevated

olivine and low chrome diopside counts are 04A-014, 028, 036 and 066. In the northern Alexis property area single 0.25-0.5mm olivine grains were recovered from samples 04A-291 and 331, while sample 04A-575 contained two 0.25-0.5mm olivines. Microprobe analysis of recovered olivine grains revealed these to be non-kimberlitic. Maps showing the distribution of olivine and chalcopyrite grains are contained in Appendix 3.

These samples anomalous in olivine also contained trace amounts of chalcopyrite, however the concentrations are extremely low and are not considered significant. The olivine and low chrome diopside are probably sourced from mafic rocks, most likely basalts or amphibolite owing to the uniformly fine size of the olivine grains. The lack of anomalous concentrations of sulphide grains (particularly chalcopyrite) suggests that the mafic rocks are unmineralised.

There are a few scattered counts (1-3 grains) of chalcopyrite from the 0.25-0.5mm fraction in samples throughout the Alexis properties, representing a low-level background. In one area there is a very weak clustering in the background chalcopyrite concentration, forming a very weak anomaly in samples 04A-358, 359, 360, 361 and 363 on prospecting permit 3854 (maximum 5 chalcopyrite grains, sample 04A-361). This is not considered significant.

No gold grains were recovered in any samples from the Alexis Properties.


8. Discussion / Recommendations

Although these initial results are negative for kimberlite indicator minerals, it is possible that the effectiveness of sampling has been reduced in topographically low areas near the coast where marine washing and reworking of the original glacial material or deposition of new marine sediments has occurred. The large variation in media sampled is indicative of the degree of modification of the original glacial sediments. At approximately 25% of sample sites till was unavailable and alternative materials were sampled. The sample spacing employed (3x3km) should be sufficient to identify dispersions from a kimberlite cluster, but may be too large to screen the area for small individual pipes, especially given the problems in obtaining good quality, consistent sample media.

There remains a great deal of information to be received from nearby and adjoining properties which may influence the prospectivity and geological and importantly geomorphological understanding of the Alexis Property area. Depending on these results, a broad-scale fixed-wing aeromagnetic survey may be warranted to assist in direct detection of any kimberlitic bodies, particularly in areas near the coast where sampling is likely to have been least effective owing to marine washing and reworking of the original glacial material or deposition of new marine sediments.

9. Declaration of Qualifications

1. I am a graduate of the University of Queensland, Australia, with a B.Sc. (Hon.) in Geology, 1995.
2. I am currently employed as a Senior Project Geologist with BHP Billiton Diamonds Inc.
3. I have been employed in mineral exploration in since 1996.
4. I personally performed and assisted with the work referenced in this report.
5. I do not own or expect to receive any interest in the property described herein with respect to services rendered in the preparation of this report.
6. The aforementioned expenditures reflect, to the best of my knowledge, a true and accurate account of claim related expense activities.



Michael Grimley
Senior Project Geochemist

9/2/05

Date

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APPENDIX 1

STATEMENT OF EXPENDITURES

The expenditures for the Alexis Properties are complex owing to the 84 samples collected on these prospecting permits being collected as part of a much larger sampling program which included work on adjacent claims. The sample collection cost is calculated on a per sample basis for the total program of 700 samples, all of which were collected on the same 3x3km density. The analytical cost is specific to the 84 samples collected on the permits as the remaining samples have not been processed at the time this report was written.

In late January 2005 BHP Billiton posted a bond of \$32,914.60 for Work Period 2. Pending approval of this report, sufficient expenditures have been made in Work Period 1 to have credits carried-over into Work Periods 2 and 3. Sufficient work has occurred to enable recovery of the initial Work Period 1 bond (\$16,457.30) posted in 2004 and the Work Period 2 bond (\$32,914.60) recently posted at the end of January 2005. The total bond refund amount requested is thus \$49,371.90.

Alexis
STATEMENT OF EXPENDITURE

Property	Prospecting Permit No	NTS Sheet and quadrant	Acreage	Recording Date	Anniversary Date	Mining District	Number of Samples	Total New Expenditure	Required Expenditures (Work Period 1)	Excess Credit (pending approval)- Apply to Work Period 2	Required Expenditures (Work Period 2)	Final Excess Credit (pending approval)- Apply to Work Period 3	Required Expenditures (Work Period 3)
Alexis	3850	48K/04NW	11,025.00	1-Feb-04	31-Jan-05	Nunavut	5	\$3,520.30	\$1,102.50	\$2,417.80	\$2,205.00	\$212.80	\$3,307.50
Alexis	3851	48K/04SW	4,048.00	1-Feb-04	31-Jan-05	Nunavut	2	\$1,408.12	\$404.80	\$1,003.32	\$809.60	\$193.72	\$1,214.40
Alexis	3852	46L/13NE	37,760.00	1-Feb-04	31-Jan-05	Nunavut	21	\$14,785.26	\$3,776.00	\$11,009.26	\$7,552.00	\$3,457.26	\$11,328.00
Alexis	3853	46M/04NE	37,376.00	1-Feb-04	31-Jan-05	Nunavut	20	\$14,081.20	\$3,737.60	\$10,343.60	\$7,475.20	\$2,868.40	\$11,212.80
Alexis	3854	46M/04SE	37,376.00	1-Feb-04	31-Jan-05	Nunavut	16	\$11,264.96	\$3,737.60	\$7,527.36	\$7,475.20	\$52.16	\$11,212.80
Alexis	3857	46M/05SE	36,988.00	1-Feb-04	31-Jan-05	Nunavut	20	\$14,081.20	\$3,698.80	\$10,382.40	\$7,397.60	\$2,984.80	\$11,096.40
TOTALS	6		164,573.00				84	\$59,141.04	\$16,457.30	\$42,683.74	\$32,914.60	\$9,769.14	\$49,371.90

* Please note: All acreages above have been reduced to exclude areas of the seabed and Inuit Owned Land (subsurface rights), if applicable.

Item	Cost	Total
Travel and Accommodation		
Accommodation at Camp	\$15,834.00	
Airfares	\$7,368.27	
General Field Expenses	\$5,636.31	\$28,838.58
Helicopter and Fixed-Wing		
Helicopter	\$144,747.60	
Fixed Wing	\$92,689.20	
Aviation Fuel	\$43,408.90	\$280,845.70
Salaries		
Salaries-Temporary Staff	\$20,802.60	
Salaries-BHPB Staff	\$4,471.20	\$25,273.80
TOTAL		\$334,958.08
Divided by number of samples		700
Cost per sample		\$478.51

Collection cost (per sample)	\$478.51
Analytical Cost (84 samples)	\$18,946.13
Analytical cost per sample	\$225.55
Total cost per sample	\$704.06
Total project Expenditure	\$59,141.10

Cost element group name	Cost Elem.	Offst.acct	Name of offsetting account	Document Header Text	Value in CAD
Salaries-Temporary Staff					
Employee Costs	600301	600301	TempStaff-Normal	Tfr Temp Sals to Projects	\$20,802.60
					\$20,802.60
Salaries-BHPB Staff					
Employee Costs	951010			Payroll Allocation Feb 2004	\$194.40
Employee Costs	951010			Payroll Allocation Mar 2004	\$583.20
Employee Costs	951010			Payroll Allocation Apr 2004	\$583.20
Employee Costs	951010			Payroll Allocation May 2004	\$583.20
Employee Costs	951010			Payroll Allocation June 2004	\$583.20
Employee Costs	951010			Payroll Allocation July 2004	\$1,555.20
Employee Costs	951010			Payroll Allocation August 2004	\$194.40
Employee Costs	951010			Payroll Allocation September 2004	\$194.40
					\$4,471.20
Aviation Fuel					
Travel & Vehicles	642000	4007906	CHURCHILL MARINE TANK FARM 2000		\$8,428.94
Travel & Vehicles	642000	4007906	CHURCHILL MARINE TANK FARM 2000		\$7,080.28
Travel & Vehicles	642000	4007906	CHURCHILL MARINE TANK FARM 2000		\$27,899.68
					\$43,408.90
Helicopter					
Travel & Vehicles	702140	702140	Leas/HireP&E-Helicop	Transfer from Qilalugaq-M	\$144,747.60
					\$144,747.60
Fixed Wing					
Travel & Vehicles	642102	702140	Leas/HireP&E-Helicop	Transfer from Qilalugaq-M	\$92,689.20
					\$92,689.20
General Field Expenses					
Equipment - Purchase & Rent	650000	4009365	Bank One	05/16/04-06/15/04	\$55.48
Equipment - Purchase & Rent	650000	4009365	Bank One	05/16/04-06/15/04	\$44.77
Equipment - Purchase & Rent	650000	4009365	Bank One	05/16/04-06/15/04	\$211.55
Field,Office & Information Supplies	800151	4009365	Bank One	05/16/04-06/15/04	\$628.13
Field,Office & Information Supplies	800151	4009365	Bank One	05/16/04-06/15/04	\$101.81
Field,Office & Information Supplies	800151	4009365	Bank One	05/16/04-06/15/04	\$43.99
Field,Office & Information Supplies	800151	4009365	Bank One	05/16/04-06/15/04	\$21.46
Field,Office & Information Supplies	800151	4009365	Bank One	05/16/04-06/15/04	\$23.59
Travel & Vehicles	801000	4020924	SHERYL BEAUDOIN	CASH EXPENSES/MAY-JUNE	\$13.50
Travel & Vehicles	801000	4021512	JOSEPH GUERIN	J.Guerin SamplingProj Exp	\$138.03
Travel & Vehicles	801080	4020924	SHERYL BEAUDOIN	CASH EXPENSES/MAY-JUNE	\$0.74
Travel & Vehicles	801150	4020924	SHERYL BEAUDOIN	CASH EXPENSES/MAY-JUNE	\$3.90
Travel & Vehicles	801150	4020924	SHERYL BEAUDOIN	CASH EXPENSES/MAY-JUNE	\$3.96
Travel & Vehicles	801150	4020924	SHERYL BEAUDOIN	CASH EXPENSES/MAY-JUNE	\$7.50
Travel & Vehicles	801150	4021512	JOSEPH GUERIN	J.Guerin SamplingProj Exp	\$18.19
Travel & Vehicles	801180	4020924	SHERYL BEAUDOIN	CASH EXPENSES/MAY-JUNE	\$1.69

Travel & Vehicles	801180	4020924	SHERYL BEAUDOIN	CASH EXPENSES/MAY-JUNE	\$0.56
Travel & Vehicles	801180	4020924	SHERYL BEAUDOIN	CASH EXPENSES/MAY-JUNE	\$1.69
Travel & Vehicles	801180	4008286	AMEX BANK OF CANADA	Michael Grimley Expense	\$10.06
Travel & Vehicles	801180	4008286	AMEX BANK OF CANADA	Michael Grimley Expense	\$24.46
Travel & Vehicles	801180	4021512	JOSEPH GUERIN	J.Guerin SamplingProj Exp	\$73.84
Travel & Vehicles	801180	4021512	JOSEPH GUERIN	J.Guerin SamplingProj Exp	\$62.62
Land Costs	807050	9004880	MICHAEL GRIMLEY	Michael Grimley	\$100.00
Land Costs	807070	311700	CLPGR-IRClr		\$4,044.80
					\$5,636.31
Accommodation at Camp					
Travel & Vehicles	801020	702140	Leas/HireP&E-Helicop	Transfer from Qilalugaq-M	\$15,834.00
					\$15,834.00
Airfares					
Travel & Vehicles	801080	4008286	AMEX BANK OF CANADA	Michael Grimley Expense	\$2,901.84
Travel & Vehicles	801080	4008286	AMEX BANK OF CANADA	Michael Grimley Expense	\$513.61
Travel & Vehicles	801080	4008286	AMEX BANK OF CANADA	Michael Grimley Expense	\$421.82
Travel & Vehicles	801080	4008286	AMEX BANK OF CANADA	Michael Grimley Expense	\$3,531.00
					\$7,368.27
Analytical					
GeoChemistry	742520		OVERBURDEN DRILLING MGT		\$16,546.10
GeoChemistry	742520		CF MINERAL RESEARCH		\$2,400.03
					\$18,946.13

APPENDIX 2

**SAMPLE DESCRIPTIONS AND ANAYLITICAL
RESULTS**

Sample	Date	Long	Lat	East	North	Zone	Datum	Sampler	Sample_type	Clay_pct	Silt_pct	Sand_pct	Gravel_pct
04A-001	8-Jul-04	-85.987651	66.039898	545874	7324726	16W	NAD83	MG/JG	till	0	30	65	5
04A-014	8-Jul-04	-85.978907	66.073136	546209	7328436	16W	NAD83	MG/JG	till	0	15	70	15
04A-028	8-Jul-04	-85.960583	66.132617	546929	7335079	16W	NAD83	MG/JG	till	5	35	55	5
04A-036	8-Jul-04	-85.895512	66.160367	549812	7338222	16W	NAD83	MG/JG	beach	0	0	70	30
04A-037	8-Jul-04	-85.973843	66.162728	546275	7338425	16W	NAD83	MG/JG	till	0	60	30	10
04A-065	8-Jul-04	-85.959311	66.189067	546882	7341372	16W	NAD83	RB/PB	beach	0	0	70	30
04A-066	8-Jul-04	-85.897154	66.185789	549688	7341054	16W	NAD83	RB/PB	till	10	40	40	10
04A-290	14-Jul-04	-87.501088	66.890090	478053	7419214	16W	NAD83	CM/JG	till	0	25	70	5
04A-291	14-Jul-04	-87.573009	66.890621	474904	7419300	16W	NAD83	CM/JG	till	5	30	60	5
04A-292	14-Jul-04	-87.639093	66.888266	472007	7419066	16W	NAD83	CM/JG	till	0	30	65	5
04A-293	14-Jul-04	-87.706153	66.887059	469068	7418963	16W	NAD83	CM/JG	till	5	40	50	5
04A-302	15-Jul-04	-87.505873	66.910426	477862	7421483	16W	NAD83	MG/CM	till	0	30	70	0
04A-303	15-Jul-04	-87.573540	66.910356	474901	7421500	16W	NAD83	MG/CM	till	0	25	75	0
04A-304	15-Jul-04	-87.641421	66.910491	471930	7421544	16W	NAD83	MG/CM	till	0	45	55	0
04A-305	15-Jul-04	-87.703729	66.914728	469209	7422046	16W	NAD83	MG/CM	till	0	15	75	10
04A-306	15-Jul-04	-87.708482	66.940821	469034	7424957	16W	NAD83	MG/CM	till	10	30	60	0
04A-307	15-Jul-04	-87.642762	66.941964	471908	7425053	16W	NAD83	MG/CM	till	0	35	60	5
04A-308	15-Jul-04	-87.579167	66.940596	474686	7424874	16W	NAD83	MG/CM	till	5	25	65	5
04A-309	15-Jul-04	-87.504355	66.939126	477954	7424681	16W	NAD83	MG/CM	till	0	15	80	5
04A-327	15-Jul-04	-87.492988	66.963883	478473	7427437	16W	NAD83	MG/CM	till	0	20	75	5
04A-328	15-Jul-04	-87.574672	66.969601	474912	7428105	16W	NAD83	MG/CM	till	5	30	60	5
04A-329	15-Jul-04	-87.641566	66.968153	471990	7427972	16W	NAD83	MG/CM	till	5	40	50	5

Sample	Date	Long	Lat	East	North	Zone	Datum	Sampler	Sample_type	Clay_pct	Silt_pct	Sand_pct	Gravel_pct
04A-330	15-Jul-04	-87.710778	66.966737	468967	7427847	16W	NAD83	MG/CM	till	15	30	50	5
04A-331	15-Jul-04	-87.712451	66.996632	468932	7431180	16W	NAD83	MG/CM	till	20	30	45	5
04A-338	16-Jul-04	-87.500707	66.995399	478164	7430953	16W	NAD83	RB/DK	till	0	20	70	10
04A-339	16-Jul-04	-87.574672	66.993800	474937	7430803	16W	NAD83	RB/DK	till	5	60	30	5
04A-340	16-Jul-04	-87.649607	66.995377	471671	7431010	16W	NAD83	RB/DK	till	5	50	35	10
04A-341	16-Jul-04	-87.716335	67.025879	468800	7434443	16W	NAD83	RB/DK	till	0	60	30	10
04A-342	16-Jul-04	-87.647756	67.026609	471788	7434491	16W	NAD83	RB/DK	till/beach	0	0	85	15
04A-343	16-Jul-04	-87.581216	67.027494	474686	7434561	16W	NAD83	RB/DK	beach	0	0	90	10
04A-344	16-Jul-04	-87.517165	67.025767	477474	7434344	16W	NAD83	RB/DK	till	5	40	45	10
04A-358	16-Jul-04	-87.499994	67.050658	478245	7437113	16W	NAD83	RB/DK	till	0	85	15	0
04A-359	16-Jul-04	-87.579146	67.054161	474804	7437533	16W	NAD83	RB/DK	till	0	60	40	0
04A-360	16-Jul-04	-87.652896	67.049059	471590	7436996	16W	NAD83	RB/DK	beach	0	90	10	0
04A-361	16-Jul-04	-87.710633	67.050325	469079	7437165	16W	NAD83	RB/DK	till	0	80	15	5
04A-362	16-Jul-04	-87.634394	67.076026	472426	7439994	16W	NAD83	RB/DK	till	0	10	80	10
04A-363	16-Jul-04	-87.564077	67.075972	475482	7439958	16W	NAD83	RB/DK	till	0	60	35	5
04A-364	16-Jul-04	-87.503598	67.076493	478111	7439994	16W	NAD83	RB/DK	beach	0	0	100	0
04A-371	17-Jul-04	-87.512659	67.106313	477745	7443321	16W	NAD83	CM/JG	till	0	30	65	15
04A-372	17-Jul-04	-87.577107	67.103427	474944	7443024	16W	NAD83	CM/JG		0	30	65	5
04A-373	17-Jul-04	-87.643599	67.105262	472059	7443257	16W	NAD83	CM/JG	till	0	30	60	10
04A-374	17-Jul-04	-87.715927	67.103991	468918	7443150	16W	NAD83	CM/JG	beach	0	10	85	5
04A-375	17-Jul-04	-87.708868	67.130679	469258	7446121	16W	NAD83	CM/JG	beach	25	30	45	0
04A-376	17-Jul-04	-87.648105	67.131000	471894	7446128	16W	NAD83	CM/JG	till	15	40	40	5
04A-377	17-Jul-04	-87.579612	67.130555	474863	7446049	16W	NAD83	CM/JG	till	5	40	50	5
04A-378	17-Jul-04	-87.510331	67.131886	477869	7446171	16W	NAD83	CM/JG	till	0	25	65	10
04A-417	20-Jul-04	-87.506758	67.159968	478050	7449300	16W	NAD83	RB/NS	till	0	0	80	20
04A-418	20-Jul-04	-87.575879	67.159255	475055	7449247	16W	NAD83	RB/NS	till	0	65	35	0
04A-419	20-Jul-04	-87.647199	67.159813	471966	7449340	16W	NAD83	RB/NS	till	0	65	35	0
04A-420	20-Jul-04	-87.713782	67.157758	469080	7449142	16W	NAD83	RB/NS	till	0	35	65	0
04A-421	20-Jul-04	-87.711802	67.182016	469196	7451845	16W	NAD83	RB/NS	till	0	65	35	0

Sample	Date	Long	Lat	East	North	Zone	Datum	Sampler	Sample_type	Clay_pct	Silt_pct	Sand_pct	Gravel_pct
04A-422	20-Jul-04	-87.642489	67.184044	472198	7452039	16W	NAD83	RB/NS	till	0	65	35	0
04A-423	20-Jul-04	-87.570251	67.183137	475323	7451907	16W	NAD83	RB/NS		0	70	30	0
04A-554	26-Jul-04	-87.512770	67.182480	477810	7451815	16W	NAD83	JG/JM	till/beach	0	10	90	0
04A-558	26-Jul-04	-87.504510	67.212730	478195	7455183	16W	NAD83	JG/JM	till	0	30	70	0
04A-559	26-Jul-04	-87.582890	67.213070	474808	7455251	16W	NAD83	JG/JM	till	10	10	80	0
04A-560	26-Jul-04	-87.645950	67.211840	472081	7455141	16W	NAD83	JG/JM	till	0	20	70	10
04A-561	26-Jul-04	-87.716170	67.212900	469047	7455292	16W	NAD83	JG/JM	till	0	20	80	0
04A-562	26-Jul-04	-87.713410	67.238450	469199	7458139	16W	NAD83	JG/JM	till	0	10	90	0
04A-565	26-Jul-04	-87.504860	67.238390	478203	7458044	16W	NAD83	JG/JM	till	0	20	60	20
04A-566	26-Jul-04	-87.575060	67.238570	475172	7458091	16W	NAD83	JG/JM	till/esker?	0	20	80	0
04A-567	26-Jul-04	-87.643620	67.238530	472212	7458115	16W	NAD83	JG/JM	till	0	30	60	10
04A-568	26-Jul-04	-87.714640	67.265850	469181	7461194	16W	NAD83	JG/JM	till				
04A-569	26-Jul-04	-87.644350	67.265720	472212	7461146	16W	NAD83	JG/JM	till/beach	0	20	80	0
04A-570	26-Jul-04	-87.575150	67.265550	475196	7461098	16W	NAD83	JG/JM	till	0	70	30	0
04A-571	26-Jul-04	-87.505420	67.265330	478203	7461047	16W	NAD83	JG/JM	till	0	70	30	0
04A-575	26-Jul-04	-87.505430	67.292130	478227	7464035	16W	NAD83	JG/JM	till	10	40	50	0
04A-576	26-Jul-04	-87.575260	67.292320	475219	7464082	16W	NAD83	JG/JM	till	0	20	80	0
04A-577	26-Jul-04	-87.645070	67.292270	472212	7464106	16W	NAD83	JG/JM	till	0	50	50	0
04A-578	26-Jul-04	-87.714880	67.292390	469205	7464153	16W	NAD83	JG/JM	till/beach	0	20	80	0
04A-579	26-Jul-04	-87.716240	67.319580	469181	7467184	16W	NAD83	JG/JM	marine	10	80	10	0
04A-580	26-Jul-04	-87.645800	67.319440	472212	7467136	16W	NAD83	JG/JM	beach	0	0	100	0
04A-581	27-Jul-04	-87.707076	67.076184	469267	7440048	16W	NAD83	JG/Leo	beach	0	10	90	0
04A-583	27-Jul-04	-87.578024	67.319686	475128	7467134	16W	NAD83	JG/Leo	beach	0	10	90	0
04A-584	27-Jul-04	-87.511216	67.320453	478004	7467195	16W	NAD83	JG/Leo	till	0	60	30	10
04A-587	27-Jul-04	-87.509875	67.341439	478081	7469534	16W	NAD83	JG/Leo	glaciofluvial	10	70	20	0
04A-588	27-Jul-04	-87.574854	67.344416	475290	7469890	16W	NAD83	JG/Leo	glaciofluvial	10	70	20	0
04A-589	27-Jul-04	-87.645841	67.345725	472241	7470066	16W	NAD83	JG/Leo	till	0	35	60	5
04A-590	27-Jul-04	-87.714785	67.347334	469279	7470278	16W	NAD83	JG/Leo	glaciofluvial	20	70	10	0
04A-591	27-Jul-04	-87.714924	67.372547	469306	7473088	16W	NAD83	JG/Leo	till	0	20	70	10
04A-592	27-Jul-04	-87.645562	67.372375	472283	7473037	16W	NAD83	JG/Leo		10	80	10	0
04A-593	27-Jul-04	-87.577869	67.371957	475189	7472961	16W	NAD83	JG/Leo	beach	0	0	80	20
04A-594	27-Jul-04	-87.505358	67.372080	478303	7472948	16W	NAD83	JG/Leo	beach	0	60	40	0
04AS-008	25-Jul-04	-87.552951	66.935111	475826	7424254	16W	NAD83	MG/CM/JG	stream	0	10	50	40

Sample	Sand grain size	Compaction	Texture	Clasts	Sorting	Moisture	Colour	Site_rating
04A-001	med-coarse	med	homo	intrusive; felsic; no carb; all granitoids	poor	damp	grey	good
04A-014	fine-med	loose-med	homo	intrusive; felsic; no carb	mod	damp	brown grey	mod
04A-028	fine-med	med-tight	homo	intrusive; felsic; carb; 60% granitoids 40% carbs	poor	damp	grey	good
04A-036	fine-med-coarse	med	homo	intrusive; metamorphic; carb; granite; gneiss;	well	damp	red brown	poor
04A-037	fine	med	homo	intrusive; metamorphic; minor carb; granite; gneiss;	mod	damp	grey	mod
04A-065		loose	homo	gneiss	poor	dry	brown	poor
04A-066		med	homo	70% gneiss; 30% carb; angular	poor	damp	grey	good
04A-290	fine-med	tight	homo	pegmatite; granitoid; gneiss	mod	dry-damp	grey brown	poor
04A-291	fine-med	loose	homo	gneiss and pegmatite	mod	damp	brown	mod
04A-292	fine-med	loose	homo	gneiss and pegmatite	mod	damp	brown	good
04A-293	fine	med	homo	gneiss and pegmatite	mod	damp	brown	good
04A-302	fine	med-tight	homo	intrusive; metamorphic; felsic; 100% granitoids	poor	damp	grey	good
04A-303	fine	med	homo	intrusive; metamorphic; felsic; 100% granitoids	poor-mod	damp	tan	mod-good
04A-304	fine	med	homo	intrusive; metamorphic; felsic; granitoids and pegmatite	poor	damp	brown	mod
04A-305	med	loose-med	gravelly sand with silty patches	intrusive; metamorphic; felsic; 100% granitoids	mod	damp	grey	mod
04A-306	fine-med	med	homo	intrusive; metamorphic; felsic; 100% granitoids	poor	damp	beige	good
04A-307	fine	med	homo	intrusive; metamorphic; felsic; 100% granitoids	poor	damp	brown	mod-good
04A-308	med	tight	homo	volcanic; intrusive; metamorphic; 100% granitoids and gneiss	poor	damp	grey brown	good
04A-309	med	med		intrusive; metamorphic; mafic; felsic; 100% granitoids trace gabbro	poor-mod	dry	grey cream	good
04A-327	fine-med	loose	homo	pegmatite; granitoid; gneiss	mod	dry	brown	poor
04A-328	fine-med	med	homo	pegmatite; granitoid; gneiss	mod	damp	brown	good
04A-329	fine-med	loose	homo	pegmatite; granitoid; gneiss	mod	dry	brown	good

Sample	Sand grain size	Compaction	Texture	Clasts	Sorting	Moisture	Colour	Site_rating
04A-330	fine	med	homo	pegmatite; granitoid; gneiss	mod	damp	brown	poor
04A-331	fine-med	loose	homo	pegmatite; granitoid; gneiss	mod	wet	brown	mod
04A-338	fine-med	med	homo	gneiss	poor	dry-damp	tan	mod
04A-339	fine	tight	homo	gneiss	mod	dry	grey	mod
04A-340	fine	med	homo	gneiss	mod	damp	tan	mod
04A-341	med	loose	homo	gneiss	poor	dry-damp	tan	mod
04A-342	med-coarse	loose	homo	gneiss	poor	damp	tan	mod
04A-343	fine-med	loose	homo	gneiss	poor	damp	tan	poor-mod
04A-344	fine-med	loose	homo	gneiss	poor	damp	grey	good
04A-358	fine	tight	homo	gneiss	mod	dry	light grey	good
04A-359	fine	tight	sample is below sand layer	gneiss	mod	dry	light grey	mod
04A-360	fine	loose	homo	gneiss	poor	damp	tan brown	mod
04A-361	fine	med-tight	layers	gneiss	poor-mod	damp	grey	mod-good
04A-362	fine-med	loose	homo	gneiss	poor	dry	brown	good
04A-363	fine	tight	homo	gneiss	mod	dry	light grey	good
04A-364	fine-med-coarse	loose	homo	gneiss	poor	damp	red brown	mod
04A-371	fine-med-coarse	med	homo	intrusive; metamorphic; mafic; pegmatite; gneiss	poor	dry	brown	mod
04A-372	fine-med-coarse	tight	homo	gneiss and pegmatite	poor	dry	grey	good
04A-373	med-coarse	med	homo	gneiss and pegmatite	mod	damp	brown	mod
04A-374	fine-med-coarse	loose	layers of different colors	none	well	dry	brown	poor
04A-375	fine	tight	homo	intrusive; mafic; pegmatite	mod	dry		poor
04A-376	fine-med	med	homo	gneiss and pegmatite	poor	damp	brown	good
04A-377	fine-med-coarse	med	homo	intrusive; metamorphic; mafic; pegmatite; gneiss	poor	dry	grey brown	mod
04A-378	fine-med-coarse	med	homo	gneiss; pegmatite; granitoid	mod	dry-damp	brown	mod
04A-417	med-coarse	loose	homo	85% granitoids; 15% gneiss	poor	dry	brown	poor
04A-418	fine-med	med	homo	90% granitoids; 10% gneiss; felsic; rare mafics	poor	dry		good
04A-419	fine-med	med-tight	homo	mostly granitoid and some pegmatite; 15% gneiss	poor	dry	grey	good
04A-420	fine	loose	homo	50% gneiss; 50% granitoid	poor	damp	tan	mod
04A-421	fine-med	med	homo	70% granitoids (pegmatite); 30% gneiss	poor	dry	grey	good

Sample	Sand grain size	Compaction	Texture	Clasts	Sorting	Moisture	Colour	Site_rating
04A-422	fine-med	tight	homo	90% granitoids; 10% gneiss	poor	dry	grey	good
04A-423	fine-med	tight	homo	70% granitoids; 25% gneiss	poor	dry		mod
04A-554	fine-med		homo	frost shattered carbs	well	damp	brown	mod-good
04A-558	fine		homo	pegmatite; gneiss	well		light brown	mod
04A-559	fine-med	loose	homo	gneiss	well	damp	light brown	poor
04A-560		med	homo	pegmatite; gneiss	mod		light brown	good
04A-561		loose	homo	none	well	damp	orange brown	mod
04A-562	fine-med	loose	homo	granite; gneiss	well	damp	light brown	poor
04A-565		med	homo	granite; gneiss	mod	damp	dark brown	mod
04A-566	fine-med	med	homo		well	damp	brown	poor
04A-567	fine-med	med	homo	gneiss	poor-mod	damp	grey	good
04A-568	med-coarse		homo		well	wet	red brown	mod
04A-569	fine-med		roots/oxidized layers		well	damp	brown	poor
04A-570		med	homo	gneiss	well	damp	brown	poor
04A-571		med	homo	gneiss	well	damp	brown	poor
04A-575	fine	med	homo		mod	damp	grey	mod
04A-576	fine-med		homo		well	damp	light brown	mod
04A-577	fine-med		homo		well	damp	light brown	mod
04A-578		med	homo	gneiss	mod	damp	light brown	mod
04A-579	fine	med	homo	various float	mod-well		grey	poor
04A-580	fine-med-coarse		homo	none	well	damp	light brown	poor
04A-581	med-coarse	loose	layers of oxidized sand		well	damp	red brown	poor
04A-583	fine-med	loose	homo	none	well	damp	light brown	poor
04A-584			homo	gneiss	mod	damp	dark brown	mod
04A-587	fine	med	homo	none	well	damp	grey	poor
04A-588	fine	med	homo	none	well	damp	grey	poor
04A-589		med	silt layers	pegmatite; ganitoid; gneiss	mod	damp	brown	mod
04A-590	fine	tight	homo	none	well	damp	grey	poor
04A-591		tight	homo	pegmatite; ganitoid; gneiss			light brown	mod
04A-592	fine	tight	homo	gneiss	well	dry	light brown	poor
04A-593	fine-med-coarse		homo		mod-well		brown	
04A-594	fine-med		med/fine sand layers		mod	damp	grey brown	poor
04AS-008	med-coarse	loose-med	homo	intrusive; metamorphic; felsic; only granitoids no carb seen	mod-well	wet	cream	mod-good

Sample	Site_description	Regional_description	pct_oversize	No_bags	Comments
04A-001	frost boil on boulder till near raised beach	washed area; outcrop common; near ocean; till preserved in lower areas	med	1	quite sandy
04A-014	outwash area off side of bare outcrop with raised beaches	near coast outcrop is bare and till partially washed	med	1	essentially gravelly sand; very washed
04A-028	frost boil on boulder till; outcrop within 2m	coastal area; till rarely preserved; outcrop well washed	low	1	
04A-036	near coast surrounded by outcrop		med	1	oxidized sandy beach; shells in coarse sand
04A-037	frost boil with shells; hummocky boulder field		low	1	
04A-065	washed but it's all we could find	lots of boulders; huge outcrop	high	1	not sure if beach
04A-066	frost boil	close to shore; boulders	med	1	
04A-290	frost boil; few boulders around	generally flat with few hills; tundra	low	1	
04A-291	frost boil covered with tundra	flat land with few scattered boulders	low	1	
04A-292	frost boil with few boulders around	flat land; many boulders; lake with beach	low	1	
04A-293	frost boil with few boulders around	valleys with cliffs and large outcrops	low	1	
04A-302	boulder till on top of a hill	open area; thicker till but outcrop still very common	low	1	sand mostly fine grained
04A-303	boulder till on top of outcrop	low rolling landscape; excellent till preservation	low	1	very sandy
04A-304	low outcrop rise with thin boulder till	undulating landscape with good till veneer; blanket in places	low	1	very silty
04A-305	boulder till slope	undulating landscape with good till veneer; blanket in places	low	1	
04A-306	frost boil in boulders on top of high hill	incised landscape with excellent boulder till veneer	low	1	
04A-307	boulder slope next to outcrop; no frost boils	incised landscape with excellent boulder till veneer	med	1	
04A-308	boulder till veneer on an outcrop slope	incised landscape with excellent boulder till veneer	med	1	quite sandy
04A-309	boulder till mound next to lake	incised landscape with excellent boulder till veneer	low	1	very sandy may be a bit washed
04A-327	frost boil next to outcrop	island in a lake	med	1	maybe old beach; 500m off the point due to water
04A-328	frost boil next to outcrop	large glacial valley with high outcrops	low	1	
04A-329	frost boil next to outcrop	mountainous area; valley; boulders all around	med	1	

Sample	Site_description	Regional_description	pct_oversize	No_bags	Comments
04A-330	frost boil next to boulders	valley; hills covered with boulders	low	1	
04A-331	frost boil in plateau of hills	hills and outcrops; boulders around	low	1	
04A-338	frost boil	boulder field; rolling hills	med	1	
04A-339	frost boil	small mound; maybe esker; beside cliffs; boulders; no outcrops	low	1	maybe esker
04A-340	frost boil	boulder field next to large cliff (sadle is at high land)	low	1	
04A-341	frost boil	high elevation; boulder field	med	1	
04A-342	frost boil	very shallow frost boil; lots of outcrop; shallow vegetation also	med	1	not sure if beach or till; not washed
04A-343	under soil horizon	boulder field; gentle slope	med	1	dug as deep as possible; not washed; not oxidized
04A-344	frost boil	high graound; fewer outcrops than previous samples; vegetation	med	1	
04A-358	big frost boil	flat; open; vegetated; rolling hill	low	1	
04A-359	big frost boil	next to lake and cliff	med	1	
04A-360	frost boil	boulder field right next to lake and cliffs	high	1	
04A-361	big frost boil	gentle slope; few outcrops	low	1	
04A-362	big frost boil	gentle slope towards lake	med	1	
04A-363	big frost boil	valley but at high elevation	low	1	
04A-364	frost boil (immature)	small valley but at high elevation; different valley than 04A-363	med	1	not washed but a bit oxidized
04A-371	frost boil with boulders around	valley; large outcrops; boulders; water	high	1	
04A-372	frost boil on flat high lans	valleys; outcrops; boulders	low	1	
04A-373	frost boil in tundra	flat plain with outcrops far away; river	med	1	
04A-374	frost boil in tundra	gorgeous beach with lakes; valleys	low	1	
04A-375	frost boil in patch of tundra on beach	flat beach with few outcrops popping up	low	1	
04A-376	frost boil in tundra	generally flat land with few high hills	low	1	
04A-377	frost boil amongst boulders	valley; outcrop; boulders	low	1	
04A-378	frost boil close to outcrop	valleys; high outcrops; boulders	high	1	
04A-417	frost boil; only one in the area	flat outcrop boulder field; few vegitated areas	high	1	washed; lots of oversize; maybe a bit oxidized
04A-418	frost boil on flank of valley	valley between rocky topped highland; gently sloping	low	1	
04A-419	frost boil on outcrop ledge	wall of a steep outcrop ledge/cliff of a valley	low	1	
04A-420	dark frost boil on outcrop plateau	valleys on either side of plateau	low	1	
04A-421	frost boil on outcrop hill beside valley	highlands and lowlands (valleys); outcrop highlands; vegetated valleys	low	1	

Sample	Site_description	Regional_description	pct_oversize	No_bags	Comments
04A-422	frost boil in valley; not drainage; higher land many boils	valley with steep outcrop cliffs on one side rolling hills on other side	low	1	
04A-423	frost boil on higher ground in valley	large open valley; lakes; small mounds dispersed	low	1	
04A-554	sandy till under tundra	between river bank and outcrop	low	1	washed
04A-558	frost boil	sloping grass and boulder field	low	1	
04A-559	eroded till bank beside river	bank sloping into river	low	1	washed
04A-560	frost boil	ridge of boulder and frost boils surrounded by swamp	low	1	
04A-561	washed sand under 10cm of tundra	flat grass field near river	low	1	washed sand till
04A-562	frost boil	sloping sandy washed till into stream valley	low	1	washed sand till
04A-565	frost boil	outcrop ridge	med	1	
04A-566	grass field	beside sandy ridge of river	low	1	washed till or esker
04A-567	frost boil	gently sloping grass field	low	1	
04A-568	grass field	near washed out bank of stream	low	1	washed sand till; changed coords from map
04A-569	under grass	grass field beside sandy river channel	low	1	washed till/beach
04A-570	silt till on gneiss outcrop	outcrop ridge	low	1	silty till
04A-571	silt till on gneiss outcrop	outcrop ridge	low	1	silty till
04A-575	frost boil	sloping grass field	low	1	
04A-576		grass plain	low	1	washed till
04A-577		grass plain	low	1	washed till
04A-578	frost boil	grass ridge above valley	low	1	
04A-579	marine flats	valley	low	1	
04A-580	sandy frost boil	beach valley	low	1	
04A-581	beach wash	wide beach valley	low	1	
04A-583	sand under tundra	large/wide beach valley	low	1	
04A-584	outcrop ridge frost boil	outcrop ridge above swamp; grass valley	med	1	silty till
04A-587	under tundra above bank	silt/clay outwash dunes; well sorted	low	1	silt/clay dunes
04A-588	under grass/tundra	washed valley near ocean	low	1	
04A-589	frost boil on outcrop	outcrop ridge above grass/sand valley	med	1	washed till
04A-590	silt/clay frost boil	washed wide valley	low	1	
04A-591	frost boil	outcrop ridge slopping into valley	low	1	washed till
04A-592	frost boil	frost boils beside gneiss boulders on flat grass plain	low	1	
04A-593	frost boil	sand and grass field sloping into ocean/paleobeach	low	1	sand and gravel with rounded clasts
04A-594	frost boil	grass and boil field 20m from beach	low	1	
04AS-008	boulder stream bed; center of channel; fines rare	high energy stream; extremely boulder/cobble rich	high	1	

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771
FAX NO.: (613) 226-8753
EMAIL: odm@storm.ca

DATA TRANSMITTAL REPORT

DATE: 15-Dec-04

ATTENTION: **Mr. Michael Grimley**

CLIENT: **BHP World Exploration Inc.**
1111 West Georgia St.
Suite 2300
Vancouver, BC
V6E 4M3

FAX NO.: (604) 683-4125

NO. OF PAGES: _____

PROJECT: **04A**

FILE NAME: **BHP - Grimley - (04A) - December 2004**

SAMPLE NUMBERS: **04A-566 to 571, 575 to 581, 583, 584, 587 to 594 and AS-008**

BATCH NUMBER: **2341**

NO. OF SAMPLES: **24**

THESE SAMPLES WERE PROCESSED FOR: **KIMBERLITE INDICATORS
SELECTED MMSIMs
GOLD**

SPECIFICATIONS:

1. Submitted by client: ± 15 kg till and esker sand and gravel samples in one bag.
2. No character split taken.
3. Heavy liquid separation specific gravity: 3.20.
4. 0.25-2.0 mm nonferromagnetic heavy mineral fraction picked for indicator minerals.
5. All other sample fractions are presently stored.

REMARKS: _____

Remy Huneault
Laboratory Manager

**OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG**

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 24

Batch Number: 2341

Sample Number	Weight (kg)				Clasts >2.0 mm					Matrix <2.0 mm							Class
	Bulk Rec'd	Table Split	+2 mm Clasts	Table Feed	S i z e	Percentage				Distribution				Colour		O r g	
						V/S	GR	LS	OT	S/U	SD	ST	CY	Sand	Clay		
04A-566	9.4	9.4	0.0	9.4		No Clasts				S	FM	Y	Y	LOC	LOC	N	SAND
04A-567	13.0	13.0	1.9	11.1	P	0	100	0	0	U	Y	Y	-	LOC	LOC	N	TILL
04A-568	14.9	14.9	1.5	13.4	P	0	100	0	0	U	+	Y	Y	LOC	DOC	+	TILL
04A-569	10.6	10.6	0.0	10.6		No Clasts				S	FM	-	N	LOC	NA	N	SAND
04A-570	9.1	9.1	0.2	8.9	P	0	100	0	0	S	F	+	Y	DOC	DOC	+	SAND + SOIL
04A-571	9.5	9.5	0.1	9.4	G	0	100	0	0	S	-	-	+	LOC	LOC	N	CLAY TILL
04A-575	12.5	12.5	0.1	12.4	P	0	100	0	0	S	FM	Y	-	GB	GB	N	SAND
04A-576	11.8	11.8	0.0	11.8		No Clasts				S	FM	-	N	LOC	NA	N	SAND
04A-577	10.3	10.3	0.0	10.3		No Clasts				S	F	+	Y	BN	BN	+	SAND + SOIL
04A-578	11.5	11.5	0.0	11.5		No Clasts				S	FM	Y	N	LOC	NA	N	SAND
04A-579	11.0	11.0	0.1	10.9		No Clasts				S	F	+	Y	GB	GB	N	SAND + SILT
04A-580	11.7	11.7	0.1	11.6	G	0	100	0	0	S	FM	-	N	LOC	NA	N	SAND
04A-581	14.6	14.6	0.1	14.5	G	0	100	0	0	S	FM	-	N	LOC	NA	N	SAND
04A-583	13.6	13.6	0.0	13.6		No Clasts				S	FM	-	N	LOC	NA	N	SAND
04A-584	14.0	14.0	4.8	9.2	P	0	100	0	0	U	+	Y	-	BN	BN	N	TILL
04A-587	13.0	13.0	0.3	12.7	P	Tr	100	0	0	S	FM	-	-	LOC	LOC	N	SAND
04A-588	13.5	13.5	0.0	13.5		No Clasts				S	-	Y	+	LOC	BE	N	SILT + CLAY
04A-589	14.7	14.7	2.0	12.7	P	Tr	100	0	0	U	Y	Y	Y	BN	BN	N	TILL
04A-590	11.3	11.3	0.0	11.3		No Clasts				S	-	+	+	LOC	BE	N	SILT + CLAY
04A-591	14.4	14.4	2.5	11.9	P	0	100	0	0	U	+	Y	-	LOC	BE	N	TILL
04A-592	9.5	9.5	0.0	9.5		No Clasts				S	F	-	Y	OC	OC	+	SAND
04A-593	13.5	13.5	6.1	7.4	P	0	100	0	0	S	MC	Y	-	OC	OC	N	SAND & GRAVEL
04A-594	14.9	14.9	0.2	14.7	G	0	100	0	0	S	FM	Y	-	OC	OC	N	SAND
04A-AS-008	11.9	11.9	0.8	11.1	G	0	100	0	0	S	MC	Y	-	OC	OC	N	SAND

OVERBURDEN DRILLING MANAGEMENT LIMITED
GOLD GRAIN SUMMARY SHEET

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 24

Batch Number: 2341

Sample Number	Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
04A-566	0	0	0	0	37.6	0	0	0	0
04A-567	0	0	0	0	44.4	0	0	0	0
04A-568	0	0	0	0	53.6	0	0	0	0
04A-569	0	0	0	0	42.4	0	0	0	0
04A-570	0	0	0	0	35.6	0	0	0	0
04A-571	0	0	0	0	37.6	0	0	0	0
04A-575	0	0	0	0	49.6	0	0	0	0
04A-576	0	0	0	0	47.2	0	0	0	0
04A-577	0	0	0	0	41.2	0	0	0	0
04A-578	0	0	0	0	46.0	0	0	0	0
04A-579	0	0	0	0	43.6	0	0	0	0
04A-580	0	0	0	0	46.4	0	0	0	0
04A-581	0	0	0	0	58.0	0	0	0	0
04A-583	0	0	0	0	54.4	0	0	0	0
04A-584	0	0	0	0	36.8	0	0	0	0
04A-587	0	0	0	0	50.8	0	0	0	0
04A-588	0	0	0	0	54.0	0	0	0	0
04A-589	0	0	0	0	50.8	0	0	0	0
04A-590	0	0	0	0	45.2	0	0	0	0
04A-591	0	0	0	0	47.6	0	0	0	0
04A-592	0	0	0	0	38.0	0	0	0	0
04A-593	0	0	0	0	29.6	0	0	0	0
04A-594	0	0	0	0	58.8	0	0	0	0
04A-AS-008	0	0	0	0	44.4	0	0	0	0

* Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG
KIMBERLITE INDICATOR MINERAL COUNTS**

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 24

Batch Number: 2341

Sample Number	<2.0 mm Table Concentrate (g)									Selected MMSIMs									KIM Count																		Total KIMs
	Total	-0.25 mm	0.25-2.0 mm Heavy Liquid Separation S.G 3.20							1.0 to 2.0 mm			0.5 to 1.0 mm			0.25 to 0.5 mm			1.0 to 2.0 mm						0.5 to 1.0 mm						0.25 to 0.5 mm						
			Heavy Liquid Lights	Mag HMC	Nonferromagnetic HMC																																
Total	<0.25 mm (wash)	0.25 to 0.5 mm	0.5 to 1.0 mm	1.0 to 2.0 mm	Low-Cr diopside	Cpy	Gh	Low-Cr diopside	Cpy	Gh	Low-Cr diopside	Cpy	Gh	GP	GO	DC	IM	CR	FO	GP	GO	DC	IM	CR	FO	GP	GO	DC	IM	CR	FO						
04A-566	373.8	199.1	169.6	0.30	4.80	1.0	3.60	0.20	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
04A-567	1,003.6	716.1	262.4	4.50	20.60	3.9	13.80	2.60	0.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
04A-568	963.5	183.0	773.5	0.30	6.70	1.2	5.10	0.40	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
04A-569	690.0	628.4	55.3	0.20	6.10	1.0	4.90	0.20	0.00	No Sample		0	0	0	0	0	0	No Sample						0	0	0	0	0	0	0	0	0	0	0			
04A-570	290.5	186.0	104.2	0.20	0.10	0.0	0.10	0.01	0.00	No Sample		0	0	0	0	0	0	No Sample						0	0	0	0	0	0	0	0	0	0	0			
04A-571	639.6	494.3	144.1	0.01	1.20	0.2	0.80	0.20	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-575	757.4	261.6	482.8	0.50	12.50	2.8	9.00	0.70	0.00	No Sample		0	0	0	0	0	0	No Sample						0	0	0	0	0	0	0	0	0	0	2	2		
04A-576	938.0	855.1	64.2	1.70	17.00	2.2	14.10	0.70	0.02	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-577	193.4	154.8	37.4	0.01	1.20	0.5	0.70	0.01	0.00	No Sample		0	0	0	0	0	0	No Sample						0	0	0	0	0	0	0	0	0	0	0	0		
04A-578	611.2	570.0	33.4	0.03	7.80	1.7	5.90	0.20	0.00	No Sample		0	0	0	2	0	0	No Sample						0	0	0	0	0	0	0	0	0	0	0	0		
04A-579	291.7	158.0	131.4	0.03	2.30	0.3	1.90	0.10	0.00	No Sample		0	0	0	0	0	0	No Sample						0	0	0	0	0	0	0	0	0	0	0	0		
04A-580	709.3	617.0	66.4	2.70	23.20	2.6	18.30	2.30	0.02	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-581	595.0	424.0	163.0	0.40	7.60	0.6	6.10	0.80	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-583	941.4	894.6	26.6	1.10	19.10	2.3	15.60	1.20	0.02	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-584	684.4	469.0	196.4	7.60	11.40	1.4	6.00	3.00	1.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-587	851.6	364.0	469.9	3.70	14.00	2.2	10.10	1.60	0.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-588	668.4	558.2	108.6	0.10	1.50	0.1	1.30	0.10	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-589	411.8	285.0	111.2	4.00	11.60	1.3	9.10	0.90	0.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-590	189.8	181.0	8.7	0.01	0.04	0.0	0.04	0.00	0.00	No Sample		No Sample		0	0	0	No Sample						No Sample														
04A-591	935.1	777.3	127.6	11.90	18.30	1.4	12.60	3.50	0.80	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-592	270.5	225.7	44.3	0.04	0.50	0.1	0.40	0.03	0.00	No Sample		0	0	0	0	0	0	No Sample						0	0	0	0	0	0	0	0	0	0	0	0		
04A-593	1,385.6	236.0	1,035.8	37.60	76.20	4.7	34.90	28.90	7.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-594	810.0	689.8	98.2	2.90	19.10	1.7	15.10	2.10	0.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-AS-008	2,074.9	799.9	1,218.5	28.50	28.00	1.9	18.10	6.40	1.60	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

* Values greater than 0.1 g were weighed only to one decimal place; the zero was added in the second decimal position to facilitate column alignment.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES**

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 24

Batch Number: 2341

SAMPLE NO.	REMARKS:
04A-566	Hornblende/titanite-epidote-diopside assemblage.
04A-567	Hornblende/epidote-titanite-diopside assemblage.
04A-568	Hornblende/titanite-epidote assemblage.
04A-569	Hornblende/titanite-epidote assemblage.
04A-570	Hornblende/titanite-epidote assemblage.
04A-571	Hornblende/titanite-epidote assemblage.
04A-575	Hornblende/titanite-epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 3 FO candidates = 2 FO and 1 augite.
04A-576	Hornblende/titanite-epidote assemblage.
04A-577	Hornblende/titanite-epidote assemblage.
04A-578	Hornblende/titanite-epidote-diopside assemblage.
04A-579	Hornblende/titanite-epidote-diopside assemblage.
04A-580	Hornblende/titanite-diopside assemblage. SEM check from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite.
04A-581	Hornblende/titanite-diopside-apatite assemblage.
04A-583	Hornblende/titanite-epidote assemblage.
04A-584	Hornblende-hematite/titanite-epidote assemblage.
04A-587	Hornblende-hematite/titanite-epidote assemblage.
04A-588	Hornblende/titanite-epidote-diopside assemblage.
04A-589	Hornblende-hematite/titanite-epidote-diopside assemblage.
04A-590	Undersized concentrate; therefore not electromagnetically separated and mineral assemblage not listed. Main minerals are hornblende and titanite.
04A-591	Hornblende-hematite/titanite-epidote assemblage.
04A-592	Hornblende-hematite/titanite-epidote assemblage.
04A-593	Hornblende/titanite-epidote assemblage.
04A-594	Hornblende/titanite-epidote assemblage. SEM check from 0.25-0.5 mm fraction: 1 GP versus fluorite candidate = 1 fluorite.
04A-AS-008	Hornblende-hematite/titanite-apatite-epidote assemblage.

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771
FAX NO.: (613) 226-8753
EMAIL: odm@storm.ca

DATA TRANSMITTAL REPORT

DATE: 14-Dec-04

ATTENTION: **Mr. Michael Grimley**

CLIENT: **BHP World Exploration Inc.**
1111 West Georgia St.
Suite 2300
Vancouver, BC
V6E 4M3

FAX NO.: (604) 683-4125

NO. OF PAGES: _____

PROJECT: **04A**

FILE NAME: **BHP - Grimley - (04A) - December 2004**

SAMPLE NUMBERS: **04A-373 to 378, 417 to 423, 554, 558 to 562 and 565**

BATCH NUMBER: **2340**

NO. OF SAMPLES: **20**

THESE SAMPLES WERE PROCESSED FOR: **KIMBERLITE INDICATORS
SELECTED MMSIMs
GOLD**

SPECIFICATIONS:

1. Submitted by client: ± 15 kg till and esker sand and gravel samples in one bag.
2. No character split taken.
3. Heavy liquid separation specific gravity: 3.20.
4. 0.25-2.0 mm nonferromagnetic heavy mineral fraction picked for indicator minerals.
5. All other sample fractions are presently stored.

REMARKS: _____

Remy Huneault
Laboratory Manager

**OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG**

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 20

Batch Number: 2340

Sample Number	Weight (kg)				Clasts >2.0 mm					Matrix <2.0 mm							Class	
	Bulk Rec'd	Table Split	+2 mm Clasts	Table Feed	S i z e	Percentage				Distribution				Colour		O r g		
						V/S	GR	LS	OT	S/U	SD	ST	CY	Sand	Clay			
04A-373	14.9	14.9	2.2	12.7	P	Tr	100	0	0	U	+	Y	-	LOC	LOC	N	TILL	
04A-374	12.6	12.6	0.0	12.6		No Clasts				S	FM	-	N	LOC	NA	N	SAND	
04A-375	13.7	13.7	0.4	13.3	P	Tr	100	0	0	U	+	Y	-	LOC	LOC	N	TILL	
04A-376	15.0	15.0	1.2	13.8	P	Tr	100	0	0	U	+	Y	-	LOC	LOC	N	TILL	
04A-377	13.0	13.0	1.1	11.9	P	0	100	0	0	U	+	Y	-	LOC	LOC	N	TILL	
04A-378	13.9	13.9	4.8	9.1	P	Tr	100	0	0	U	Y	Y	Y	LOC	LOC	N	TILL	
04A-417	14.6	14.6	7.4	7.2	P	Tr	100	0	0	S	MC	N	N	DOC	NA	N	SAND & GRAVEL	
04A-418	14.2	14.2	1.2	13.0	P	Tr	100	0	0	U	Y	Y	Y	MOC	LOC	N		TILL
04A-419	14.5	14.5	1.9	12.6	P	0	100	0	0	U	Y	Y	Y	LOC	LOC	N		TILL
04A-420	16.3	16.3	0.7	15.6	P	0	100	0	0	U	Y	Y	Y	LOC	LOC	N		TILL
04A-421	15.5	15.5	2.0	13.5	P	0	100	0	0	U	Y	Y	Y	LOC	LOC	N	TILL	
04A-422	14.8	14.8	2.4	12.4	P	0	100	0	0	U	Y	Y	Y	LOC	BE	N	TILL	
04A-423	14.3	14.3	3.0	11.3	P	Tr	100	0	0	U	Y	Y	Y	LOC	LOC	N	TILL	
04A-554	13.2	13.2	0.9	12.3	G	0	100	0	0	S	MC	N	N	MOC	NA	N	SAND & GRAVEL	
04A-558	12.7	12.7	0.8	11.9	P	0	100	0	0	U	Y	Y	Y	LOC	LOC	N		TILL
04A-559	12.7	12.7	0.2	12.5	P	0	100	0	0	S	FM	Y	-	LOC	LOC	N	SAND	
04A-560	11.3	11.3	2.1	9.2	P	0	100	0	0	U	Y	Y	Y	LOC	LOC	N	TILL	
04A-561	12.8	12.8	0.0	12.8		No Clasts				S	FM	Y	-	LOC	LOC	N	SAND	
04A-562	11.3	11.3	0.0	11.3		No Clasts				S	MC	-	-	LOC	LOC	N	SAND	
04A-565	11.8	11.8	3.0	8.8	P	0	100	0	0	U	+	Y	-	MOC	MOC	N	TILL	

OVERBURDEN DRILLING MANAGEMENT LIMITED
GOLD GRAIN SUMMARY SHEET

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 20

Batch Number: 2340

Sample Number	Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
					*				
04A-373	0	0	0	0	50.8	0	0	0	0
04A-374	0	0	0	0	50.4	0	0	0	0
04A-375	0	0	0	0	53.2	0	0	0	0
04A-376	0	0	0	0	55.2	0	0	0	0
04A-377	0	0	0	0	47.6	0	0	0	0
04A-378	0	0	0	0	36.4	0	0	0	0
04A-417	0	0	0	0	28.8	0	0	0	0
04A-418	0	0	0	0	52.0	0	0	0	0
04A-419	0	0	0	0	50.4	0	0	0	0
04A-420	0	0	0	0	62.4	0	0	0	0
04A-421	0	0	0	0	54.0	0	0	0	0
04A-422	0	0	0	0	49.6	0	0	0	0
04A-423	0	0	0	0	45.2	0	0	0	0
04A-554	0	0	0	0	49.2	0	0	0	0
04A-558	0	0	0	0	47.6	0	0	0	0
04A-559	0	0	0	0	50.0	0	0	0	0
04A-560	0	0	0	0	36.8	0	0	0	0
04A-561	0	0	0	0	51.2	0	0	0	0
04A-562	0	0	0	0	45.2	0	0	0	0
04A-565	0	0	0	0	35.2	0	0	0	0

* Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
DETAILED GOLD GRAIN SHEET**

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 20

Batch Number: 2340

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
04A-373	No	NO VISIBLE GOLD									
04A-374	No	NO VISIBLE GOLD									
04A-375	No	NO VISIBLE GOLD									
04A-376	No	NO VISIBLE GOLD									
04A-377	No	NO VISIBLE GOLD									
04A-378	No	NO VISIBLE GOLD									
04A-417	No	NO VISIBLE GOLD									
04A-418	No	NO VISIBLE GOLD									
04A-419	No	NO VISIBLE GOLD									
04A-420	No	NO VISIBLE GOLD									
04A-421	No	NO VISIBLE GOLD									
04A-422	No	NO VISIBLE GOLD									
04A-423	No	NO VISIBLE GOLD									
04A-554	No	NO VISIBLE GOLD									
04A-558	No	NO VISIBLE GOLD									
04A-559	No	NO VISIBLE GOLD									
04A-560	No	NO VISIBLE GOLD									
04A-561	No	NO VISIBLE GOLD									
04A-562	No	NO VISIBLE GOLD									
04A-565	No	NO VISIBLE GOLD									

**OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG
KIMBERLITE INDICATOR MINERAL COUNTS**

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 20

Batch Number: 2340

Sample Number	<2.0 mm Table Concentrate (g)									Selected MMSIMs									KIM Count																		Total KIMs		
	Total	-0.25 mm	0.25-2.0 mm Heavy Liquid Separation S.G 3.20						1.0 to 2.0 mm			0.5 to 1.0 mm			0.25 to 0.5 mm			1.0 to 2.0 mm						0.5 to 1.0 mm						0.25 to 0.5 mm									
			Heavy Liquid Lights	Mag HMC	Nonferromagnetic HMC				Low-Cr diopside	Cpy	Gh	Low-Cr diopside	Cpy	Gh	Low-Cr diopside	Cpy	Gh	GP	GO	DC	IM	CR	FO	GP	GO	DC	IM	CR	FO	GP	GO	DC	IM	CR	FO				
					Total	<0.25 mm (wash)	0.25 to 0.5 mm	0.5 to 1.0 mm																												1.0 to 2.0 mm			
04A-373	1,140.3	929.1	178.7	11.8	20.7	2.5	12.6	4.1	1.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-374	1,683.3	1,549.5	115.9	0.5	17.4	1.9	14.4	1.1	0.00	No Sample			0	0	0	0	0	0	No Sample						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04A-375	1,162.3	507.6	643.5	1.3	9.9	3.4	5.8	0.6	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04A-376	947.3	559.7	375.2	2.8	9.6	1.5	5.7	1.5	0.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-377	815.3	543.6	255.0	4.8	11.9	1.1	8.1	2.2	0.50	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-378	839.2	607.4	216.9	5.0	9.9	1.0	6.7	1.8	0.40	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-417	1,449.2	357.8	1,064.9	10.4	16.1	2.6	10.4	2.4	0.70	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-418	585.4	189.7	384.8	5.8	5.1	0.5	3.8	0.7	0.10	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-419	1,475.6	1,102.5	348.7	9.7	14.7	2.3	8.7	2.8	0.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-420	603.0	230.4	367.6	0.7	4.3	0.6	3.1	0.5	0.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-421	954.5	290.1	654.1	5.1	5.2	0.8	3.3	0.9	0.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-422	1,379.6	1,072.4	281.8	9.4	16.0	2.8	9.2	3.1	0.90	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-423	768.7	205.1	546.9	9.1	7.6	0.6	4.7	1.9	0.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-554	1,531.5	913.7	587.0	2.3	28.5	5.6	19.6	3.1	0.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-558	497.6	157.6	331.9	4.1	4.0	0.4	2.8	0.7	0.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-559	1,276.8	1,141.5	103.7	2.7	28.9	3.7	22.1	2.9	0.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-560	988.2	314.6	658.6	5.8	9.2	1.3	6.1	1.5	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-561	1,221.0	1,155.3	52.9	0.6	12.2	1.4	10.2	0.6	0.00	No Sample			0	0	0	0	0	0	No Sample						0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04A-562	1,277.3	433.0	816.2	5.1	23.0	4.6	16.6	1.8	0.01	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04A-565	1,053.9	847.6	168.3	15.1	22.9	4.1	13.8	3.6	1.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

* Values greater than 0.1 g were weighed only to one decimal place; the zero was added in the second decimal position to facilitate column alignment.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES**

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 20

Batch Number: 2340

SAMPLE NO.	REMARKS:
04A-373	Hornblende-hematite/titanite-diopside assemblage. SEM check from 0.5-1.0 mm fraction: 1 FO versus diopside candidate = 1 corundum. SEM checks from 0.25-0.5 mm fraction: 4 FO versus diopside candidates = 3 diopside and 1 feldspar.
04A-374	Hornblende/titanite-epidote assemblage.
04A-375	Hornblende/titanite-epidote-diopside assemblage.
04A-376	Hornblende/titanite-epidote assemblage. SEM check from 0.25-0.5 mm fraction: 1 FO versus diopside candidate = 1 diopside.
04A-377	Hornblende-hematite/titanite-epidote assemblage.
04A-378	Hornblende-hematite/epidote-titanite assemblage. Also picked 1 molybdenite from 0.25-0.5 mm fraction.
04A-417	Hornblende-hematite/epidote-titanite assemblage.
04A-418	Hornblende-hematite/titanite-epidote-diopside assemblage.
04A-419	Hornblende-hematite/titanite-epidote assemblage.
04A-420	Hornblende-hematite/titanite-epidote assemblage. SEM check from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite.
04A-421	Hornblende-hematite/titanite-epidote-diopside assemblage.
04A-422	Hornblende-hematite/titanite assemblage. SEM check from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite.
04A-423	Hornblende-hematite/titanite assemblage.
04A-554	Hornblende/titanite assemblage.
04A-558	Hornblende-hematite/titanite-epidote assemblage.
04A-559	Hornblende/titanite-epidote assemblage.
04A-560	Hornblende-hematite/titanite assemblage.
04A-561	Hornblende/titanite-epidote assemblage.
04A-562	Hornblende/titanite-epidote assemblage.
04A-565	Hornblende/titanite assemblage.

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771
FAX NO.: (613) 226-8753
EMAIL: odm@storm.ca

DATA TRANSMITTAL REPORT

DATE: 14-Dec-04
ATTENTION: **Mr. Michael Grimley**
CLIENT: **BHP World Exploration Inc.**
1111 West Georgia St.
Suite 2300
Vancouver, BC
V6E 4M3
FAX NO.: (604) 683-4125
NO. OF PAGES: _____
PROJECT: **04A**
FILE NAME: **BHP - Grimley - (04A) - December 2004**
SAMPLE NUMBERS: **04A-328 to 331, 338 to 344, 358 to 364, 371 and 372**
BATCH NUMBER: **2338**
NO. OF SAMPLES: **20**
THESE SAMPLES WERE PROCESSED FOR: **KIMBERLITE INDICATORS
SELECTED MMSIMs
GOLD**

SPECIFICATIONS:

1. Submitted by client: ± 15 kg till and esker sand and gravel samples in one bag.
2. No character split taken.
3. Heavy liquid separation specific gravity: 3.20.
4. 0.25-2.0 mm nonferromagnetic heavy mineral fraction picked for indicator minerals.
5. All other sample fractions are presently stored.

REMARKS: _____

Remy Huneault
Laboratory Manager

**OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG**

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 20

Batch Number: 2338

Sample Number	Weight (kg)				Clasts >2.0 mm					Matrix <2.0 mm							Class
	Bulk Rec'd	Table Split	+2 mm Clasts	Table Feed	S i z e	Percentage				Distribution				Colour		O r g	
						V/S	GR	LS	OT	S/U	SD	ST	CY	Sand	Clay		
04A-328	14.5	14.5	2.0	12.5	P	0	100	0	0	U	Y	Y	Y	LOC	LOC	N	TILL
04A-329	14.1	14.1	2.2	11.9	P	0	100	0	0	U	Y	Y	Y	LOC	LOC	N	TILL
04A-330	13.7	13.7	1.5	12.2	P	0	100	0	0	U	Y	Y	Y	MOC	MOC	N	TILL
04A-331	13.4	13.4	1.2	12.2	P	0	100	0	0	U	Y	Y	Y	MOC	MOC	N	TILL
04A-338	13.9	13.9	2.6	11.3	P	0	100	0	0	U	Y	Y	Y	LOC	BE	N	TILL
04A-339	12.7	12.7	1.3	11.4	P	Tr	100	0	0	U	Y	Y	Y	MOC	MOC	N	TILL
04A-340	14.7	14.7	2.1	12.6	P	0	100	0	0	U	Y	Y	Y	MOC	MOC	N	TILL
04A-341	13.3	13.3	2.4	10.9	P	Tr	100	0	0	U	Y	Y	Y	MOC	MOC	N	TILL
04A-342	15.1	15.1	3.7	11.4	P	Tr	100	0	0	U	Y	Y	Y	MOC	MOC	N	TILL
04A-343	14.8	14.8	5.8	9.0	P	Tr	100	0	0	U	+	Y	-	BN	BN	N	TILL
04A-344	14.5	14.5	2.0	12.5	P	0	100	0	0	U	Y	Y	Y	LOC	BE	N	TILL
04A-358	14.5	14.5	1.8	12.7	P	Tr	100	0	0	U	Y	Y	Y	LOC	BE	N	TILL
04A-359	12.6	12.6	2.3	10.3	P	Tr	100	0	0	U	+	Y	-	LOC	LOC	N	TILL
04A-360	14.6	14.6	6.0	8.6	P	Tr	100	0	0	U	+	Y	-	LOC	BE	N	TILL
04A-361	17.6	17.6	2.0	15.6	P	Tr	100	0	0	U	Y	Y	Y	LOC	LOC	N	TILL
04A-362	15.4	15.4	2.0	13.4	P	0	100	0	0	U	+	Y	-	LOC	LOC	N	TILL
04A-363	14.2	14.2	1.9	12.3	P	Tr	100	0	0	U	Y	Y	Y	DOC	PK	N	TILL
04A-364	14.9	14.9	3.7	11.2	P	Tr	100	0	0	U	+	Y	-	MOC	LOC	N	TILL
04A-371	14.6	14.6	4.2	10.4	P	Tr	100	0	0	U	Y	Y	Y	LOC	LOC	N	TILL
04A-372	13.5	13.5	1.5	12.0	P	0	100	0	0	U	Y	Y	Y	LOC	BE	N	TILL

OVERBURDEN DRILLING MANAGEMENT LIMITED
GOLD GRAIN SUMMARY SHEET

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 20

Batch Number: 2338

Sample Number	Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
04A-328	0	0	0	0	50.0	0	0	0	0
04A-329	0	0	0	0	47.6	0	0	0	0
04A-330	0	0	0	0	48.8	0	0	0	0
04A-331	0	0	0	0	48.8	0	0	0	0
04A-338	0	0	0	0	45.2	0	0	0	0
04A-339	0	0	0	0	45.6	0	0	0	0
04A-340	0	0	0	0	50.4	0	0	0	0
04A-341	0	0	0	0	43.6	0	0	0	0
04A-342	0	0	0	0	45.6	0	0	0	0
04A-343	0	0	0	0	36.0	0	0	0	0
04A-344	0	0	0	0	50.0	0	0	0	0
04A-358	0	0	0	0	50.8	0	0	0	0
04A-359	0	0	0	0	41.2	0	0	0	0
04A-360	0	0	0	0	34.4	0	0	0	0
04A-361	0	0	0	0	62.4	0	0	0	0
04A-362	0	0	0	0	53.6	0	0	0	0
04A-363	0	0	0	0	49.2	0	0	0	0
04A-364	0	0	0	0	44.8	0	0	0	0
04A-371	0	0	0	0	41.6	0	0	0	0
04A-372	0	0	0	0	48.0	0	0	0	0

* Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES**

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 20

Batch Number: 2338

SAMPLE NO.	REMARKS:
04A-328	Hornblende-hematite/titanite-apatite assemblage.
04A-329	Hematite-hornblende/titanite-diopside assemblage. Picked 1 molybdenite from 0.25-0.5 mm fraction.
04A-330	Hornblende-hematite/apatite-titanite assemblage.
04A-331	Hornblende-hematite/titanite assemblage. SEM check from 0.5-1.0 mm fraction: 1 FO candidate = 1 diopside. SEM check from 0.25-0.5 mm fraction: 1 FO candidate = 1 FO.
04A-338	Hornblende-hematite/diopside assemblage.
04A-339	Hornblende-hematite/titanite-apatite-diopside assemblage.
04A-340	Hornblende/apatite-titanite assemblage.
04A-341	Diopside assemblage. Diopside dominates all fractions.
04A-342	Augite assemblage. SEM checks from 0.25-0.5 mm fraction: 5 representative brown augite (major assemblage mineral) versus orthopyroxene candidates = 5 augite intergrown with enstatite. Augite dominates all fractions.
04A-343	Hornblende-hematite/titanite-apatite-epidote assemblage.
04A-344	Hornblende-hematite/epidote-titanite assemblage.
04A-358	Hornblende-hematite/titanite-apatite-epidote assemblage.
04A-359	Hornblende-hematite/titanite-apatite assemblage.
04A-360	Hornblende/titanite-pyrite-apatite assemblage.
04A-361	Hornblende-hematite/titanite-apatite-diopside assemblage.
04A-362	Hornblende-hematite/titanite-epidote-diopside-apatite assemblage.
04A-363	Hornblende-hematite/titanite-apatite-epidote assemblage. SEM check from 0.25-0.5 mm fraction: 1 GO versus almandine candidate = 1 almandine.
04A-364	Hornblende-hematite/diopside-titanite assemblage.
04A-371	Hornblende/titanite-diopside assemblage.
04A-372	Hornblende/titanite-apatite-diopside assemblage.

Lenters, Martin H

From: Howe, Jeremy JJ
Sent: Wednesday, 9 February 2005 9:21 AM
To: Lenters, Martin H
Subject: FW: Boart Longyear Agreement
Attachments: Drilling Agmt (draft) Feb. 8, 2005.doc

Martin,

Could you take a look at the Schedule D attachments and let me know what you think. It looks rather obvious to me which SOPs are relevant but I want to make sure.

Jeremy

From: Talbot, Ian
Sent: Tuesday, February 08, 2005 5:58 PM
To: Howe, Jeremy JJ
Subject: Boart Longyear Agreement

Jeremy:

Attached is a revised version of the drilling agreement. It has been updated with all the current insurance and HSEC requirements. You will have to go through the Schedule D HSEC policies with Martin Lenters and decide which of the listed policies apply to this drill job. Once that has been determined, copies of the applicable HSEC policies should be provided to Boart at the same time as the draft agreement.

Regards,

Ian

9/02/2005

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771
FAX NO.: (613) 226-8753
EMAIL: odm@storm.ca

DATA TRANSMITTAL REPORT

DATE: 13-Dec-04

ATTENTION: **Mr. Michael Grimley**

CLIENT: **BHP World Exploration Inc.**
1111 West Georgia St.
Suite 2300
Vancouver, BC
V6E 4M3

FAX NO.: (604) 683-4125

NO. OF PAGES: _____

PROJECT: **04A**

FILE NAME: **BHP - Grimley - (04A) - December 2004**

SAMPLE NUMBERS: **04A-001, 014, 028, 036, 037, 065, 066, 290 to 293, 302 to 309 and 327**

BATCH NUMBER: **2337**

NO. OF SAMPLES: **20**

THESE SAMPLES WERE PROCESSED FOR: **KIMBERLITE INDICATORS
SELECTED MMSIMs
GOLD**

SPECIFICATIONS:

1. Submitted by client: ± 15 kg till and esker sand and gravel samples in one bag.
2. No character split taken.
3. Heavy liquid separation specific gravity: 3.20.
4. 0.25-2.0 mm nonferromagnetic heavy mineral fraction picked for indicator minerals.
5. All other sample fractions are presently stored.

REMARKS: _____

Remy Huneault
Laboratory Manager

**OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG**

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 20

Batch Number: 2337

Sample Number	Weight (kg)				Clasts >2.0 mm					Matrix <2.0 mm							Class
	Bulk Rec'd	Table Split	+2 mm Clasts	Table Feed	Size	Percentage				Distribution				Colour		Org	
						V/S	GR	LS	OT	S/U	SD	ST	CY	Sand	Clay		
04A-001	13.6	13.6	5.4	8.2	P	0	100	0	0	U	+	Y	-	MOC	MOC	N	TILL
04A-014	12.8	12.8	4.3	8.5	P	0	100	0	0	U	Y	Y	Y	LOC	LOC	N	
04A-028	13.8	13.8	3.5	10.3	P	0	95	5	0	U	Y	Y	Y	LOC	LOC	N	
04A-036	14.7	14.7	7.4	7.3	P	0	60	40	0	S	MC	N	N	LOC	NA	N	SAND & GRAVEL
04A-037	15.0	15.0	2.1	12.9	P	0	85	15	0	U	Y	Y	Y	LOC	BE	N	
04A-065	11.7	11.7	4.8	6.9	P	Tr	75	25	0	S	MC	N	N	MOC	NA	N	SAND & GRAVEL
04A-066	14.8	14.8	1.5	13.3	P	0	80	20	0	U	Y	Y	Y	LOC	BE	N	
04A-290	14.5	14.5	1.2	13.3	P	0	100	0	0	U	Y	Y	Y	LOC	LOC	N	TILL
04A-291	15.5	15.5	1.7	13.8	P	0	100	0	0	U	Y	Y	Y	MOC	MOC	N	TILL
04A-292	15.0	15.0	1.2	13.8	P	0	100	0	0	U	Y	Y	Y	LOC	LOC	N	TILL
04A-293	14.5	14.5	1.0	13.5	P	0	100	0	0	U	Y	Y	Y	LOC	LOC	N	TILL
04A-302	15.5	15.5	1.7	13.8	P	0	100	0	0	U	Y	Y	Y	LOC	BE	N	TILL
04A-303	15.4	15.4	1.6	13.8	P	0	100	0	0	U	Y	Y	Y	MOC	MOC	N	TILL
04A-304	16.1	16.1	1.3	14.8	P	0	100	0	0	S	FM	Y	N	MOC	NA	N	SAND
04A-305	15.0	15.0	2.5	12.5	P	Tr	100	0	0	U	Y	Y	Y	LOC	LOC	N	TILL
04A-306	15.4	15.4	2.0	13.4	P	0	100	0	0	U	Y	Y	Y	LOC	BE	N	TILL
04A-307	13.8	13.8	3.1	10.7	P	0	100	0	0	U	+	-	-	MOC	MOC	N	SANDY TILL
04A-308	15.6	15.6	3.3	12.3	P	0	100	0	0	U	Y	Y	Y	MOC	MOC	N	
04A-309	15.2	15.2	4.8	10.4	P	0	100	0	0	U	Y	Y	Y	LOC	BE	N	TILL
04A-327	14.1	14.1	3.4	10.7	P	0	100	0	0	U	Y	Y	Y	MOC	MOC	N	TILL

OVERBURDEN DRILLING MANAGEMENT LIMITED
GOLD GRAIN SUMMARY SHEET

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 20

Batch Number: 2337

Sample Number	Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
04A-001	0	0	0	0	32.8	0	0	0	0
04A-014	0	0	0	0	34.0	0	0	0	0
04A-028	0	0	0	0	41.2	0	0	0	0
04A-036	0	0	0	0	29.2	0	0	0	0
04A-037	0	0	0	0	51.6	0	0	0	0
04A-065	0	0	0	0	27.6	0	0	0	0
04A-066	0	0	0	0	53.2	0	0	0	0
04A-290	0	0	0	0	53.2	0	0	0	0
04A-291	0	0	0	0	55.2	0	0	0	0
04A-292	0	0	0	0	55.2	0	0	0	0
04A-293	0	0	0	0	54.0	0	0	0	0
04A-302	0	0	0	0	55.2	0	0	0	0
04A-303	0	0	0	0	55.2	0	0	0	0
04A-304	0	0	0	0	59.2	0	0	0	0
04A-305	0	0	0	0	50.0	0	0	0	0
04A-306	0	0	0	0	53.6	0	0	0	0
04A-307	0	0	0	0	42.8	0	0	0	0
04A-308	0	0	0	0	49.2	0	0	0	0
04A-309	0	0	0	0	41.6	0	0	0	0
04A-327	0	0	0	0	42.8	0	0	0	0

*

* Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG
KIMBERLITE INDICATOR MINERAL COUNTS**

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 20

Batch Number: 2337

Sample Number	<2.0 mm Table Concentrate (g)									Selected MMSIMs									KIM Count																		Total KIMs
	Total	-0.25 mm	0.25-2.0 mm Heavy Liquid Separation S.G 3.20						1.0 to 2.0 mm			0.5 to 1.0 mm			0.25 to 0.5 mm			1.0 to 2.0 mm						0.5 to 1.0 mm						0.25 to 0.5 mm							
			Heavy Liquid Lights	Mag HMC	Nonferromagnetic HMC				Low-Cr diopside	Cpy	Gh	Low-Cr diopside	Cpy	Gh	Low-Cr diopside	Cpy	Gh	GP	GO	DC	IM	CR	FO	GP	GO	DC	IM	CR	FO	GP	GO	DC	IM	CR	FO		
					Total	<0.25 mm (wash)	0.25 to 0.5 mm	0.5 to 1.0 mm																												1.0 to 2.0 mm	
04A-001	915.6	635.3	250.1	5.7	24.5	1.8	16.1	5.5	1.1	0	0	0	2	0	0	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20(500)	506
04A-014	1,061.4	857.9	181.5	2.1	19.9	1.9	13.2	4.4	0.4	0	0	0	1	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	
04A-028	939.7	779.5	144.0	5.9	10.3	1.0	7.1	1.8	0.4	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	
04A-036	957.7	350.9	590.3	1.3	15.2	3.0	11.0	1.0	0.2	0	0	0	0	0	0	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	
04A-037	646.0	344.4	285.0	2.5	14.1	2.0	8.7	2.9	0.5	0	0	0	1	1	0	2	8	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	30(150)	155		
04A-065	887.9	234.0	637.6	2.2	14.1	1.9	10.8	1.3	0.1	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	17(40)	45		
04A-066	851.6	580.1	261.0	2.0	8.5	1.0	6.1	1.3	0.1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
04A-290	793.4	681.2	92.8	6.9	12.5	1.0	8.4	2.5	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04A-291	1,195.1	1,066.3	106.2	8.4	14.2	1.2	9.8	2.7	0.5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
04A-292	881.2	463.2	402.5	6.9	8.6	0.7	5.6	1.8	0.5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04A-293	771.9	654.4	103.8	5.6	8.1	0.9	5.3	1.5	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04A-302	1,055.5	914.4	117.8	7.8	15.5	1.2	10.3	3.2	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04A-303	1,007.0	905.1	82.8	8.1	11.0	0.9	7.7	2.1	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04A-304	904.9	817.7	69.1	8.3	9.8	1.0	6.7	1.8	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04A-305	1,003.4	405.9	572.7	11.8	13.0	1.4	7.6	3.0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04A-306	931.7	794.3	115.2	8.8	13.4	0.9	9.3	2.7	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04A-307	831.6	743.3	72.4	7.6	8.3	1.0	5.5	1.5	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04A-308	1,083.0	498.4	563.9	9.7	11.0	1.2	7.0	2.3	0.5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04A-309	1,110.8	989.7	101.2	8.3	11.6	1.3	8.1	1.9	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04A-327	839.4	390.2	435.2	7.0	7.0	0.9	4.5	1.4	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

* Numbers in brackets are estimated total indicator grains present in samples where not all of the grains were picked.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES**

Project: 04A

Filename: BHP - Grimley - (04A) - December 2004

Total Number of Samples in this Report = 20

Batch Number: 2337

SAMPLE NO.	REMARKS:
04A-001	Hornblende/diopside-titanite assemblage.
04A-014	Hornblende/diopside-apatite assemblage. SEM check from 0.25-0.5 mm fraction: 1 FO versus diopside candidate = 1 enstatite. Also picked 1 molybdenite from 0.5-1.0 mm fraction.
04A-028	Hornblende/apatite-titanite-diopside-epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite; and 2 CR versus crustal ilmenite candidates = 2 crustal ilmenite.
04A-036	Hornblende/diopside-titanite-epidote assemblage. Also picked 1 molybdenite from 0.25-0.5 mm fraction.
04A-037	Hornblende/diopside-apatite assemblage.
04A-065	Hornblende-diopside-apatite-titanite assemblage. Also picked 1 molybdenite from 0.5-1.0 mm fraction and 1 other from 0.25-0.5 mm fraction.
04A-066	Hornblende/diopside-titanite assemblage.
04A-290	Hornblende-hematite/titanite assemblage.
04A-291	Hornblende/titanite-diopside-epidote-apatite assemblage. SEM check from 0.25-0.5 mm fraction: 1 FO versus diopside candidate = 1 FO. Also picked 1 molybdenite from 0.25-0.5 mm fraction.
04A-292	Hornblende/titanite-diopside-sillimanite assemblage.
04A-293	Hornblende/diopside-titanite-apatite assemblage.
04A-302	Hornblende/titanite-apatite-diopside assemblage.
04A-303	Hornblende/titanite-apatite-diopside assemblage.
04A-304	Hornblende/diopside-titanite assemblage.
04A-305	Hornblende/titanite-diopside assemblage.
04A-306	Hornblende/titanite-diopside assemblage.
04A-307	Hornblende-hematite/diopside-titanite assemblage. Picked 1 brass turning (contamination) from 0.25-0.5 mm fraction.
04A-308	Hornblende/titanite-apatite-diopside assemblage.
04A-309	Hornblende-hematite/apatite-titanite assemblage.
04A-327	Hornblende-hematite-almandine/epidote-diopside assemblage.

Alexis Project Appendix 2 Probe Data

Sample	Fraction	Mount	Cell	Grain	SA	CFM	DI	SiO2	TiO2	Al2O3	Cr2O3	FeO	MgO	CaO	MnO	NiO	Na2O	K2O	Total
04A-001	0.25-0.5	4562	1	101		OLV		40.20	0.00	0.05	0.02	11.47	46.25	0.00	0.21	0.31	0.00	0.00	98.50
04A-001	0.25-0.5	4562	1	102		OLV		40.10	0.01	0.02	0.00	12.09	45.96	0.01	0.18	0.26	0.00	0.00	98.63
04A-001	0.25-0.5	4562	1	103		OLV		40.59	0.01	0.00	0.00	11.87	45.86	0.01	0.21	0.24	0.00	0.00	98.78
04A-001	0.25-0.5	4562	1	104		OLV		40.41	0.01	0.01	0.00	11.82	46.25	0.02	0.18	0.26	0.00	0.00	98.94
04A-001	0.25-0.5	4562	1	105		OLV		40.42	0.00	0.00	0.00	11.02	47.03	0.00	0.18	0.23	0.00	0.00	98.88
04A-001	0.25-0.5	4562	1	107		OLV		40.10	0.01	0.00	0.02	11.14	46.98	0.00	0.17	0.26	0.00	0.00	98.68
04A-001	0.25-0.5	4562	1	108		OLV		40.64	0.04	0.03	0.00	11.79	46.86	0.01	0.12	0.27	0.01	0.00	99.76
04A-001	0.25-0.5	4562	1	109		OLV		40.43	0.00	0.00	0.00	11.78	46.37	0.01	0.19	0.29	0.01	0.01	99.09
04A-001	0.25-0.5	4562	1	110		OLV		40.47	0.00	0.00	0.00	11.00	46.81	0.00	0.20	0.25	0.00	0.00	98.72
04A-001	0.25-0.5	4562	1	201		OLV		40.11	0.00	0.00	0.03	11.69	46.45	0.00	0.19	0.24	0.00	0.01	98.71
04A-001	0.25-0.5	4562	1	202		OLV		40.28	0.01	0.00	0.03	11.84	46.29	0.01	0.17	0.26	0.00	0.00	98.89
04A-001	0.25-0.5	4562	1	203		OLV		40.28	0.00	0.00	0.01	11.84	46.71	0.01	0.21	0.27	0.00	0.00	99.34
04A-001	0.25-0.5	4562	1	204		OLV		40.51	0.00	0.03	0.01	11.21	46.93	0.01	0.21	0.25	0.00	0.01	99.16
04A-001	0.25-0.5	4562	1	205		OLV		40.46	0.01	0.00	0.02	11.12	47.05	0.00	0.15	0.26	0.00	0.00	99.07
04A-001	0.25-0.5	4562	1	206		OLV		40.31	0.02	0.00	0.00	11.55	46.24	0.00	0.17	0.31	0.00	0.00	98.59
04A-001	0.25-0.5	4562	1	207		OLV		40.52	0.01	0.00	0.00	10.96	47.09	0.02	0.22	0.24	0.00	0.00	99.07
04A-001	0.25-0.5	4562	1	208		OLV		40.12	0.00	0.02	0.00	11.88	46.04	0.00	0.19	0.25	0.00	0.01	98.50
04A-001	0.25-0.5	4562	1	209		OLV		40.38	0.00	0.04	0.00	11.13	47.22	0.00	0.23	0.26	0.01	0.01	99.26
04A-001	0.25-0.5	4562	1	210		OLV		40.45	0.00	0.01	0.00	11.59	46.52	0.01	0.20	0.30	0.01	0.00	99.09
04A-001	0.25-0.5	4562	1	211		OLV		40.38	0.01	0.00	0.02	11.91	46.27	0.01	0.16	0.27	0.00	0.00	99.03
04A-001	0.5-1.0	4562	1	301		OLV		39.99	0.01	0.00	0.00	12.02	46.11	0.01	0.21	0.23	0.00	0.00	98.57
04A-001	0.5-1.0	4562	1	302		OLV		40.26	0.00	0.03	0.00	11.59	46.34	0.00	0.19	0.23	0.00	0.00	98.64
04A-001	0.5-1.0	4562	1	304		OLV		40.61	0.00	0.00	0.00	11.14	47.30	0.01	0.17	0.27	0.02	0.00	99.51
04A-001	0.5-1.0	4562	1	305		OLV		40.14	0.00	0.02	0.00	12.04	46.20	0.00	0.17	0.27	0.00	0.00	98.83
04A-001	0.5-1.0	4562	1	306		OLV		40.41	0.00	0.01	0.00	11.82	45.97	0.01	0.17	0.26	0.00	0.00	98.67
04A-001	0.25-0.5	4562	1	106		OLV-FORS		41.03	0.01	0.00	0.00	8.54	49.13	0.00	0.19	0.44	0.00	0.00	99.34
04A-001	0.5-1.0	4562	1	303		OLV-FORS		40.80	0.02	0.00	0.00	9.67	48.08	0.01	0.15	0.37	0.00	0.00	99.09
04A-014	0.25-0.5	4562	1	412		FLSP		61.25	0.02	24.35	0.00	0.09	0.00	5.73	0.01	0.00	7.94	0.27	99.66
04A-014	0.25-0.5	4562	1	401		KYAN		36.85	0.00	63.78	0.04	0.13	0.00	0.02	0.00	0.04	0.02	0.04	100.92
04A-014	0.25-0.5	4562	1	511		KYAN		36.67	0.01	63.72	0.14	0.31	0.00	0.01	0.00	0.00	0.01	0.01	100.88
04A-014	0.25-0.5	4562	1	307		OLV		40.51	0.00	0.01	0.01	10.99	46.92	0.00	0.17	0.43	0.00	0.00	99.03
04A-014	0.25-0.5	4562	1	402		OLV		40.74	0.00	0.00	0.02	10.18	47.52	0.01	0.16	0.52	0.00	0.00	99.14
04A-014	0.25-0.5	4562	1	404		OLV		40.87	0.00	0.00	0.02	10.08	48.09	0.00	0.17	0.44	0.00	0.01	99.67
04A-014	0.25-0.5	4562	1	405		OLV		40.08	0.00	0.03	0.00	13.03	45.54	0.00	0.29	0.28	0.00	0.00	99.25
04A-014	0.25-0.5	4562	1	406		OLV		40.68	0.00	0.03	0.01	10.94	46.85	0.01	0.24	0.34	0.00	0.00	99.09
04A-014	0.25-0.5	4562	1	407		OLV		40.41	0.01	0.02	0.00	10.37	47.41	0.01	0.18	0.41	0.00	0.00	98.81
04A-014	0.25-0.5	4562	1	409		OLV		40.61	0.02	0.01	0.01	10.13	47.34	0.00	0.24	0.38	0.00	0.01	98.75
04A-014	0.25-0.5	4562	1	410		OLV		40.60	0.00	0.01	0.00	10.85	46.74	0.01	0.31	0.34	0.00	0.01	98.86
04A-014	0.25-0.5	4562	1	411		OLV		40.26	0.02	0.00	0.03	12.35	45.70	0.00	0.23	0.27	0.00	0.00	98.85

Alexis Project Appendix 2 Probe Data

Sample	Fraction	Mount	Cell	Grain	SA	CFM	DI	SiO2	TiO2	Al2O3	Cr2O3	FeO	MgO	CaO	MnO	NiO	Na2O	K2O	Total
04A-014	0.25-0.5	4562	1	413		OLV		40.44	0.00	0.01	0.00	9.73	48.01	0.00	0.23	0.36	0.00	0.00	98.78
04A-014	0.25-0.5	4562	1	414		OLV		40.45	0.00	0.00	0.00	10.64	47.21	0.00	0.16	0.24	0.00	0.00	98.70
04A-014	0.25-0.5	4562	1	501		OLV		40.44	0.00	0.00	0.00	10.01	47.77	0.00	0.22	0.35	0.02	0.00	98.81
04A-014	0.25-0.5	4562	1	502		OLV		40.42	0.00	0.00	0.03	11.39	46.38	0.01	0.30	0.24	0.00	0.00	98.76
04A-014	0.25-0.5	4562	1	503		OLV		40.02	0.01	0.01	0.00	11.89	46.25	0.01	0.16	0.32	0.00	0.00	98.66
04A-014	0.25-0.5	4562	1	504		OLV		40.51	0.01	0.01	0.00	10.57	47.28	0.01	0.26	0.28	0.00	0.00	98.93
04A-014	0.25-0.5	4562	1	507		OLV		40.49	0.01	0.00	0.00	11.88	46.11	0.01	0.15	0.46	0.01	0.00	99.11
04A-014	0.25-0.5	4562	1	508		OLV		40.00	0.02	0.00	0.00	12.72	45.57	0.01	0.33	0.38	0.01	0.00	99.03
04A-014	0.25-0.5	4562	1	509		OLV		40.33	0.01	0.00	0.00	11.37	46.75	0.01	0.26	0.31	0.00	0.01	99.04
04A-014	0.25-0.5	4562	1	510		OLV		40.16	0.00	0.01	0.01	10.92	46.98	0.00	0.18	0.36	0.00	0.00	98.61
04A-014	0.25-0.5	4562	1	512		OLV		40.25	0.00	0.00	0.00	12.17	46.07	0.01	0.21	0.39	0.00	0.00	99.10
04A-014	0.25-0.5	4562	1	602		OLV		40.55	0.00	0.00	0.03	10.93	46.65	0.00	0.24	0.25	0.00	0.00	98.65
04A-014	0.25-0.5	4562	1	603		OLV		40.67	0.01	0.00	0.00	10.29	47.34	0.01	0.18	0.40	0.01	0.00	98.91
04A-014	0.25-0.5	4562	1	308		OLV-FORS		41.25	0.01	0.00	0.01	9.04	48.91	0.00	0.19	0.39	0.00	0.00	99.80
04A-014	0.25-0.5	4562	1	505		OLV-FORS		40.82	0.01	0.00	0.06	9.06	48.36	0.00	0.15	0.39	0.00	0.00	98.84
04A-014	0.25-0.5	4562	1	601		OLV-FORS		40.72	0.00	0.00	0.00	9.03	48.56	0.00	0.18	0.38	0.00	0.00	98.86
04A-014	0.25-0.5	4562	1	506	CE	CP5		54.48	0.02	0.59	0.01	3.11	15.80	25.02	0.19	0.00	0.32	0.00	99.54
04A-014	0.25-0.5	4562	1	403	CE	CPX		54.03	0.01	0.29	0.03	4.79	14.90	25.07	0.10	0.00	0.13	0.01	99.35
04A-014	0.25-0.5	4562	1	408	CE	CPX		54.12	0.01	0.78	0.00	4.67	14.82	24.82	0.06	0.00	0.27	0.01	99.56
04A-028	0.25-0.5	4562	1	604	CE	CPX		53.98	0.02	0.38	0.04	3.66	16.33	23.92	0.17	0.01	0.13	0.01	98.63
04A-028	0.25-0.5	4562	1	605	CE	CPX		54.38	0.05	0.24	0.08	3.33	16.79	24.41	0.14	0.01	0.09	0.00	99.51
04A-028	0.25-0.5	4562	1	607	CE	CPX		54.97	0.03	0.18	0.08	2.21	17.16	24.79	0.15	0.04	0.10	0.00	99.70
04A-028	0.25-0.5	4562	1	606	CE	CPX		53.82	0.02	1.46	0.12	3.68	15.99	23.05	0.15	0.05	0.39	0.00	98.72
04A-036	0.25-0.5	4562	1	611		OLV		40.47	0.01	0.00	0.00	9.99	47.54	0.00	0.18	0.42	0.00	0.00	98.61
04A-036	0.25-0.5	4562	1	701		OLV		40.09	0.02	0.00	0.01	11.35	46.53	0.01	0.25	0.43	0.02	0.01	98.72
04A-036	0.25-0.5	4562	1	703		OLV		40.65	0.00	0.04	0.00	10.01	47.83	0.00	0.16	0.43	0.00	0.00	99.11
04A-036	0.25-0.5	4562	1	705		OLV		40.57	0.01	0.00	0.13	11.30	46.42	0.00	0.20	0.40	0.00	0.00	99.03
04A-036	0.25-0.5	4562	1	707		OLV		40.55	0.00	0.02	0.00	10.25	47.38	0.00	0.20	0.41	0.00	0.01	98.81
04A-036	0.25-0.5	4562	1	608		OLV-FORS		41.10	0.00	0.00	0.00	8.20	48.71	0.00	0.23	0.48	0.00	0.00	98.73
04A-036	0.25-0.5	4562	1	609		OLV-FORS		40.89	0.00	0.02	0.00	8.41	49.22	0.00	0.15	0.43	0.00	0.01	99.13
04A-036	0.25-0.5	4562	1	610		OLV-FORS		40.57	0.00	0.01	0.00	9.01	48.53	0.01	0.18	0.43	0.00	0.01	98.74
04A-036	0.25-0.5	4562	1	702		OLV-FORS		40.83	0.01	0.01	0.01	8.77	48.86	0.00	0.13	0.39	0.00	0.00	99.00
04A-036	0.25-0.5	4562	1	706		OLV-FORS		40.91	0.00	0.01	0.00	8.56	48.72	0.00	0.14	0.42	0.00	0.01	98.76
04A-036	0.25-0.5	4562	1	708		OLV-FORS		40.58	0.00	0.00	0.03	9.49	48.51	0.01	0.10	0.53	0.02	0.00	99.26
04A-036	0.25-0.5	4562	1	704		OLV-FORS	DIO\$	40.84	0.00	0.00	0.01	9.04	48.26	0.00	0.17	0.47	0.00	0.00	98.80
04A-037	0.5-1.0	4562	1	709		OLV		39.47	0.00	0.00	0.00	15.20	43.42	0.00	0.22	0.31	0.00	0.00	98.62
04A-037	0.5-1.0	4562	1	710		OLV		39.80	0.00	0.00	0.00	14.97	43.77	0.01	0.17	0.29	0.02	0.00	99.03
04A-037	0.5-1.0	4562	2	101		OLV		39.76	0.01	0.00	0.02	14.79	44.33	0.00	0.21	0.33	0.00	0.00	99.44
04A-037	0.5-1.0	4562	2	102		OLV		39.70	0.00	0.01	0.00	15.21	43.90	0.02	0.21	0.22	0.00	0.00	99.26

Alexis Project Appendix 2 Probe Data

Sample	Fraction	Mount	Cell	Grain	SA	CFM	DI	SiO2	TiO2	Al2O3	Cr2O3	FeO	MgO	CaO	MnO	NiO	Na2O	K2O	Total
04A-037	0.5-1.0	4562	2	103		OLV		39.80	0.03	0.02	0.02	15.09	43.66	0.01	0.18	0.27	0.00	0.00	99.07
04A-037	0.25-0.5	4562	2	104		OLV		39.65	0.00	0.00	0.01	14.78	43.94	0.01	0.21	0.28	0.00	0.00	98.88
04A-037	0.25-0.5	4562	2	105		OLV		39.48	0.01	0.00	0.00	15.09	43.98	0.00	0.18	0.28	0.00	0.00	99.01
04A-037	0.25-0.5	4562	2	106		OLV		39.33	0.00	0.00	0.00	15.02	43.78	0.01	0.20	0.33	0.00	0.00	98.67
04A-037	0.25-0.5	4562	2	107		OLV		39.57	0.00	0.00	0.00	14.81	44.04	0.00	0.21	0.27	0.00	0.00	98.91
04A-037	0.25-0.5	4562	2	108		OLV		39.82	0.00	0.00	0.00	15.07	43.95	0.01	0.22	0.34	0.00	0.00	99.40
04A-037	0.25-0.5	4562	2	109		OLV		39.62	0.00	0.03	0.03	15.14	43.30	0.00	0.21	0.31	0.00	0.00	98.64
04A-037	0.25-0.5	4562	2	110		OLV		39.47	0.01	0.00	0.00	15.13	43.61	0.01	0.18	0.28	0.02	0.00	98.70
04A-037	0.25-0.5	4562	2	201		OLV		39.44	0.00	0.00	0.00	14.90	43.67	0.00	0.17	0.25	0.00	0.00	98.43
04A-037	0.25-0.5	4562	2	202		OLV		39.60	0.00	0.02	0.00	15.18	43.52	0.01	0.17	0.24	0.00	0.00	98.73
04A-037	0.25-0.5	4562	2	203		OLV		39.88	0.02	0.02	0.00	13.79	44.78	0.01	0.30	0.18	0.00	0.00	98.97
04A-037	0.25-0.5	4562	2	204		OLV		39.64	0.00	0.00	0.00	15.06	43.39	0.00	0.21	0.30	0.00	0.00	98.59
04A-037	0.25-0.5	4562	2	205		OLV		39.62	0.00	0.01	0.03	15.07	43.49	0.00	0.16	0.32	0.00	0.00	98.70
04A-037	0.25-0.5	4562	2	206		OLV		39.51	0.01	0.00	0.00	15.32	43.48	0.00	0.19	0.32	0.00	0.00	98.83
04A-037	0.25-0.5	4562	2	207		OLV		40.34	0.00	0.02	0.00	11.77	46.32	0.02	0.20	0.48	0.00	0.00	99.16
04A-037	0.25-0.5	4562	2	208		OLV		39.59	0.02	0.00	0.00	15.21	43.64	0.00	0.19	0.29	0.00	0.00	98.94
04A-037	0.25-0.5	4562	2	209		OLV		39.70	0.03	0.00	0.00	15.06	43.46	0.01	0.19	0.34	0.00	0.01	98.79
04A-037	0.25-0.5	4562	2	210		OLV		39.58	0.01	0.00	0.00	13.96	44.66	0.01	0.27	0.29	0.01	0.00	98.79
04A-037	0.25-0.5	4562	2	211		OLV		39.59	0.03	0.01	0.01	15.12	43.28	0.00	0.16	0.30	0.00	0.00	98.51
04A-037	0.25-0.5	4562	2	301		OLV		39.48	0.02	0.00	0.00	15.21	43.91	0.00	0.20	0.31	0.00	0.01	99.14
04A-037	0.25-0.5	4562	2	302		OLV		40.04	0.00	0.02	0.01	15.40	43.31	0.00	0.25	0.26	0.00	0.00	99.27
04A-037	0.25-0.5	4562	2	303		OLV		39.46	0.00	0.00	0.03	15.05	43.54	0.02	0.20	0.28	0.00	0.00	98.58
04A-037	0.25-0.5	4562	2	304		OLV		39.63	0.01	0.00	0.00	15.10	43.53	0.01	0.21	0.31	0.00	0.00	98.82
04A-037	0.25-0.5	4562	2	305		OLV		39.55	0.01	0.02	0.00	15.42	43.58	0.00	0.18	0.28	0.00	0.00	99.05
04A-037	0.25-0.5	4562	2	306		OLV		39.54	0.00	0.02	0.00	15.27	43.72	0.00	0.16	0.31	0.00	0.00	99.01
04A-037	0.25-0.5	4562	2	307		OLV		39.79	0.00	0.00	0.00	14.93	43.74	0.00	0.17	0.32	0.00	0.00	98.95
04A-037	0.25-0.5	4562	2	308		OLV		39.51	0.01	0.00	0.03	15.18	43.40	0.02	0.28	0.18	0.00	0.01	98.62
04A-037	0.25-0.5	4562	2	309		OLV		39.83	0.00	0.02	0.01	14.77	44.06	0.00	0.22	0.28	0.00	0.00	99.19
04A-037	0.25-0.5	4562	2	310		OLV		39.71	0.01	0.00	0.00	15.63	43.12	0.01	0.23	0.28	0.00	0.00	98.99
04A-037	0.25-0.5	4562	2	311		OLV		39.59	0.00	0.01	0.00	15.04	43.81	0.00	0.20	0.31	0.00	0.01	98.97
04A-037	0.25-0.5	4562	2	401		OLV		39.46	0.00	0.00	0.01	15.04	44.00	0.01	0.20	0.31	0.00	0.00	99.04
04A-037	0.25-0.5	4562	2	402		OLV		39.70	0.01	0.00	0.02	14.93	43.97	0.01	0.19	0.29	0.00	0.00	99.10
04A-065	0.25-0.5	4562	2	505		AL-SI		29.01	0.13	17.90	0.02	0.19	0.00	12.59	0.06	0.00	0.55	0.52	60.96
04A-065	0.25-0.5	4562	2	502		OLV		40.48	0.00	0.01	0.03	10.48	47.46	0.00	0.20	0.37	0.00	0.00	99.03
04A-065	0.25-0.5	4562	2	508		OLV		40.80	0.00	0.02	0.00	10.32	47.32	0.01	0.26	0.33	0.00	0.00	99.04
04A-065	0.25-0.5	4562	2	601		OLV		39.59	0.00	0.02	0.22	13.97	44.28	0.07	0.22	0.23	0.00	0.00	98.60
04A-065	0.25-0.5	4562	2	603		OLV		40.27	0.03	0.00	0.00	11.76	46.55	0.00	0.18	0.45	0.00	0.00	99.24
04A-065	0.25-0.5	4562	2	604		OLV		40.40	0.00	0.01	0.00	11.03	46.78	0.03	0.11	0.45	0.00	0.00	98.80
04A-065	0.5-1.0	4562	2	405		OLV-FORS		41.03	0.03	0.01	0.00	9.35	48.45	0.00	0.22	0.38	0.00	0.01	99.46

Alexis Project Appendix 2 Probe Data

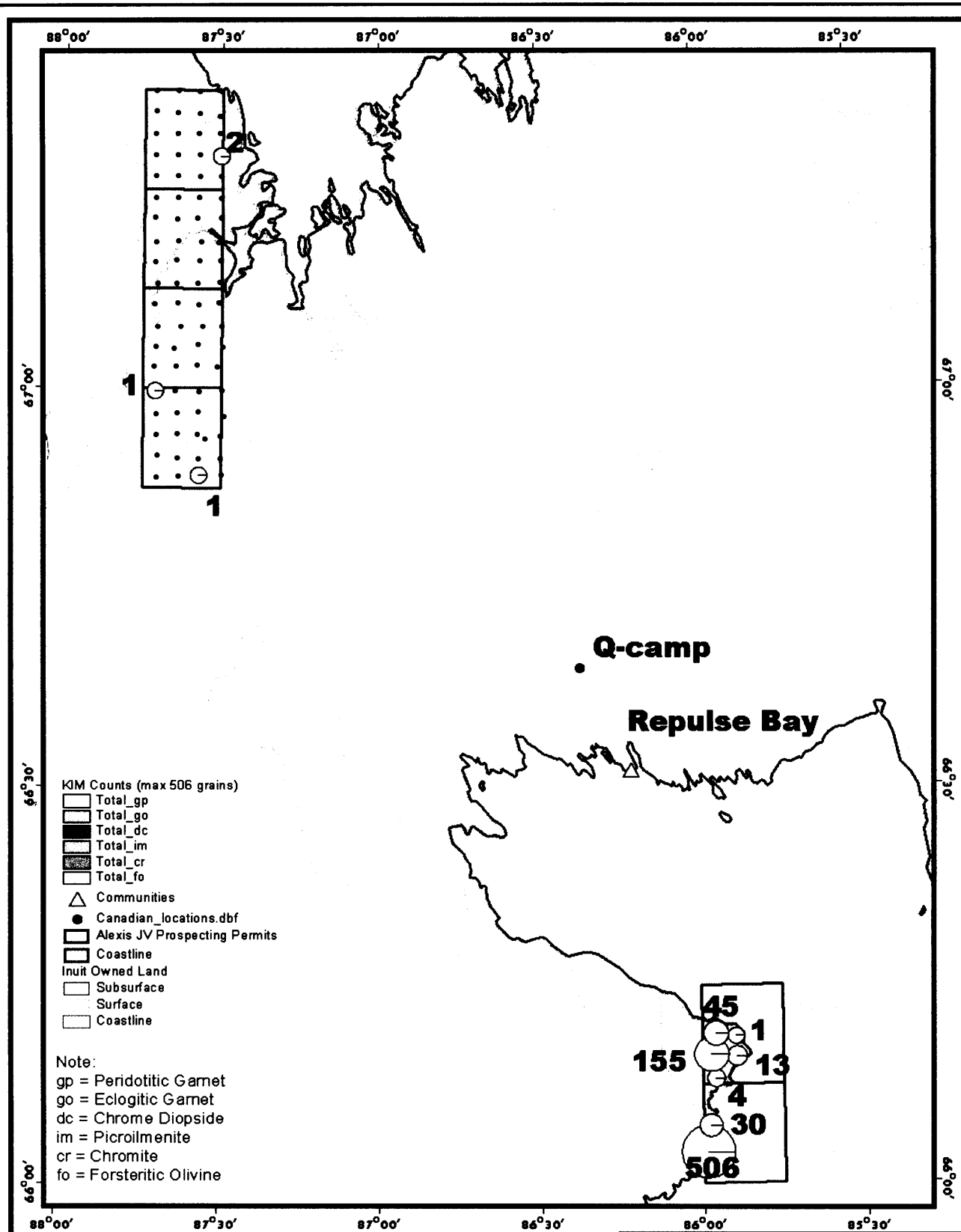
Sample	Fraction	Mount	Cell	Grain	SA	CFM	DI	SiO2	TiO2	Al2O3	Cr2O3	FeO	MgO	CaO	MnO	NiO	Na2O	K2O	Total
04A-065	0.25-0.5	4562	2	503		OLV-FORS		40.67	0.00	0.00	0.00	9.10	48.43	0.00	0.22	0.30	0.00	0.00	98.72
04A-065	0.25-0.5	4562	2	506		OLV-FORS		41.14	0.01	0.01	0.00	8.26	48.91	0.01	0.16	0.48	0.00	0.00	98.99
04A-065	0.25-0.5	4562	2	507		OLV-FORS		41.00	0.00	0.00	0.01	8.40	49.08	0.00	0.12	0.49	0.00	0.00	99.09
04A-065	0.25-0.5	4562	2	510		OLV-FORS		41.29	0.02	0.01	0.01	8.22	49.11	0.02	0.16	0.43	0.01	0.00	99.26
04A-065	0.25-0.5	4562	2	602		OLV-FORS		40.63	0.00	0.00	0.00	9.47	48.26	0.00	0.21	0.35	0.00	0.01	98.94
04A-065	0.25-0.5	4562	2	605		OLV-FORS		41.05	0.00	0.00	0.00	9.02	48.74	0.00	0.10	0.43	0.00	0.00	99.34
04A-065	0.5-1.0	4562	2	406		OP1	DIO	57.87	0.02	0.12	0.11	5.35	34.87	0.16	0.13	0.08	0.00	0.00	98.71
04A-065	0.25-0.5	4562	2	501		QRTZ		100.03	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	100.07
04A-065	0.25-0.5	4562	2	511	CE	CP5		54.63	0.07	0.64	0.02	2.21	16.56	24.12	0.05	0.00	0.35	0.00	98.64
04A-065	0.5-1.0	4562	2	403	CE	CPX		54.36	0.03	0.46	0.00	3.72	15.31	25.31	0.12	0.00	0.15	0.00	99.46
04A-065	0.5-1.0	4562	2	404	CE	CPX		54.14	0.00	0.41	0.01	4.44	15.08	25.27	0.05	0.00	0.10	0.00	99.50
04A-065	0.5-1.0	4562	2	407	CE	CPX		54.44	0.00	0.40	0.00	3.45	15.69	25.51	0.10	0.03	0.17	0.00	99.80
04A-065	0.25-0.5	4562	2	504	CE	CPX		53.39	0.01	0.54	0.03	6.86	13.35	24.53	0.18	0.00	0.17	0.00	99.05
04A-065	0.25-0.5	4562	2	509	CE	CPX		54.40	0.02	0.56	0.06	3.60	15.37	25.28	0.06	0.00	0.06	0.02	99.42
04A-065	0.25-0.5	4562	2	606	CE	CPX		54.32	0.02	0.45	0.04	4.19	14.89	25.34	0.20	0.01	0.06	0.00	99.50
04A-066	0.25-0.5	4562	2	607		OLV		40.50	0.00	0.00	0.00	10.28	47.49	0.01	0.29	0.35	0.00	0.00	98.91
04A-291	0.25-0.5	4562	2	608		OLV		40.59	0.00	0.04	0.01	10.37	46.98	0.00	0.18	0.37	0.00	0.00	98.52
04A-331	0.25-0.5	4562	2	701		OLV		38.92	0.01	0.00	0.00	18.05	41.35	0.00	0.41	0.00	0.00	0.01	98.74
04A-575	0.25-0.5	4562	2	703		OLV		39.26	0.01	0.00	0.01	17.12	41.70	0.01	0.49	0.15	0.00	0.01	98.75
04A-575	0.25-0.5	4562	2	702		OLV-FORS		40.93	0.00	0.02	0.01	9.38	48.40	0.02	0.26	0.45	0.00	0.00	99.46

APPENDIX 3

KIM AND OTHER INDICATOR DISTRUBUTION MAPS

The colors on the pie charts on the map correspond to the colors adjacent to the different mineral species listed in the legend. The size of the pie charts is proportional to the total number of KIM grains present in each sample. The bold numbers next to each sample with a KIM grain recovery indicate the total number of grains in that sample. The number of grains represented by the largest pie on the map is shown in the legend and also as the bold number next to that particular sample. Samples with no recoveries are represented by a small black dot.

The proportion of each mineral species is represented by the degree to which it fills each individual pie chart. Thus a sample with 2 olivine grains and one chromite would have $\frac{2}{3}$ of the pie colored yellow representing the olivine grains and $\frac{1}{3}$ colored blue representing 1 chromite grain.



Scale 1 : 750000

0 10 20 30 40 50 60 km

Universal Transverse Mercator Projection
Zone: 16 Datum : NAD83 Spheroid : GRS 80

BHP Billiton

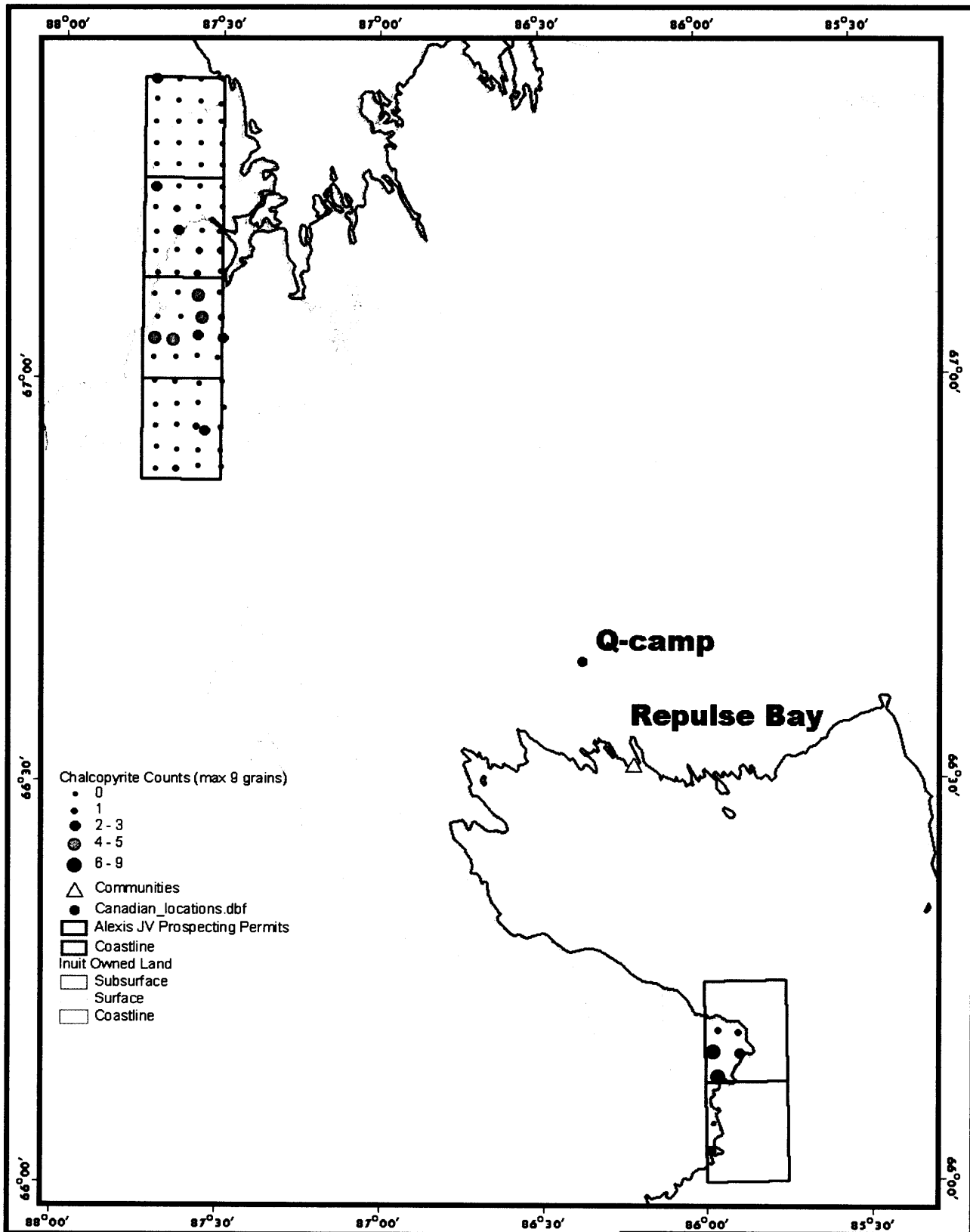
Minerals Exploration
BHP Billiton Minerals Inc.

**Alexis Property
2004 KIM Counts**

Prepared: MJG	Drp. No:
Drawn: MJG	Revisions:
Centre: Vancouver	Date: 06/Jan/2005

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APPENDIX 4

SAMPLE PROCESSING METHODOLOGY

Sample Processing

The flow sheet for kimberlite indicator mineral (KIM) and magmatic-metamorphosed massive sulphide indicator mineral (MMSIM) processing for Overburden Drilling Management (ODM) is attached, as is a list of ODM's laboratory abbreviations. On KIM projects ODM also include a gold grain count and three fundamental MMSIMs (chalcopyrite, gahnite and low-Cr diopside) to ensure that significant gold or base metal deposits are not overlooked during the search for kimberlite.

The ODM flow sheet is designed to progressively reduce the bulk sample, concentrate all of the heavy minerals, and finally clean and sort these minerals to simplify identification of any indicator mineral grains. First the sample is wet screened at 2.0mm and a -2.0mm table concentrate is prepared. Geological observations on the character of the sample are made during both the screening and tabling operations. Our table concentrate is purposely large (~1 kg) and of low grade to achieve a high recovery rate for both silt-sized gold grains and coarse-grained KIMs and MMSIMs. The gold grains are observed at this stage and are counted, measured and classified as to degree of wear (i.e. distance of transport). Their gold assay value is also calculated.

The table reject is then re-tabled to scavenge possible unrecovered KIMs, mainly the largest grains which are the most difficult to recover. The 0.25-2.0 mm (i.e. indicator mineral sized) portion of the concentrate from both tabling runs is separated in methylene iodide diluted with acetone to S.G. 3.20 to ensure recovery of the least dense KIM species, Cr-diopside and forsterite olivine. Undesirable magnetite is then removed from the refined 0.25 to 2.0 mm heavy liquid concentrate using a ferromagnetic separator and the retained non-ferromagnetic heavies are cleansed with oxalic acid to remove limonite stains that would otherwise impede mineral identification. This fraction is further sorted mineralogically into strongly, moderately, weakly and non-paramagnetic fractions to ease indicator mineral logging.

What is not apparent from the flow sheet is that all of our indicator mineral logging is done by experienced exploration geologists/mineralogists, not by technicians. These mineralogists are familiar with all minerals in the concentrate, not just a limited suite of KIMs, and are therefore able to recognize minerals indicative of any type of deposit and mineral textures and distribution patterns critical to follow-up exploration. To this end, they also systematically record the major mineral suite of each sample, thereby monitoring any significant changes in the overall sediment provenance. A summary report is supplied with any anomalous sample batch describing the anomalous patterns and their probable significance.

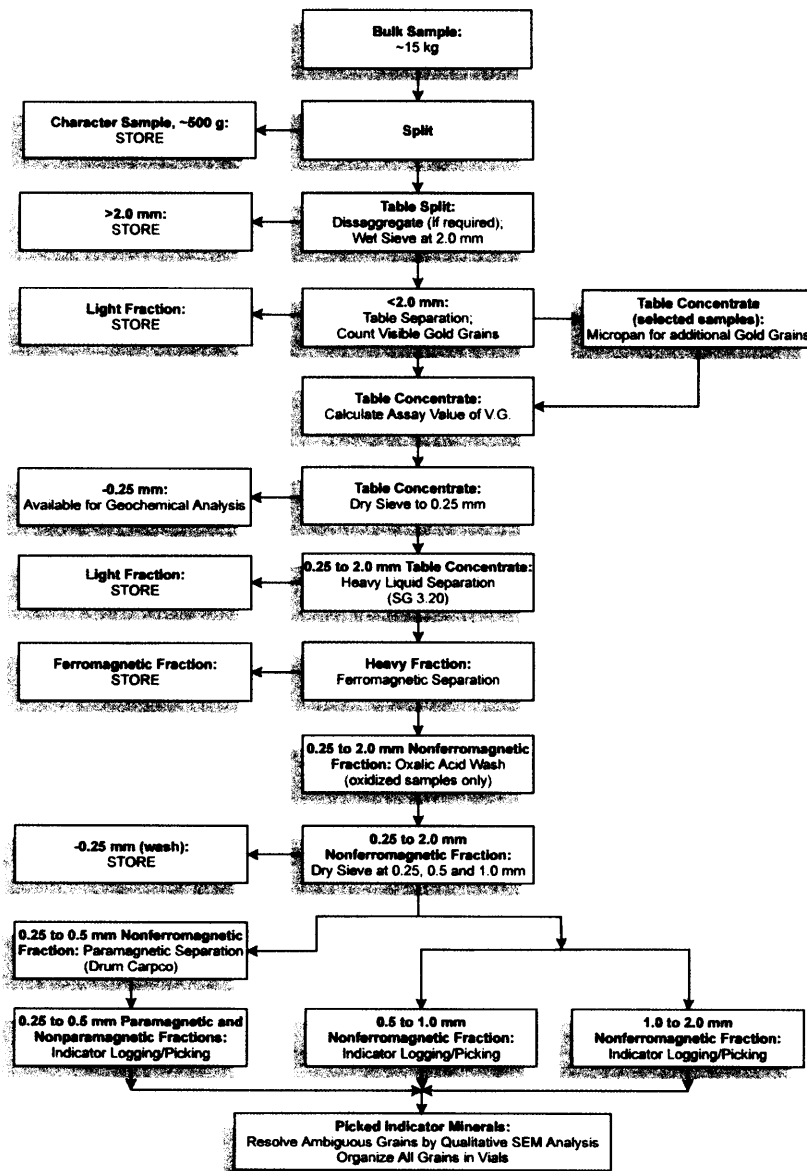
Quality Assurance

Selected samples were spiked with known KIM grains as a measure assessing the quality of the laboratory results. The 0.25-0.5mm and 0.5-1.0mm fractions were spiked. Between 3-8 grains

each of six mineral species (purple garnet, orange garnet, Cr-diopside, picroilmenite, chromite and forsteritic olivine) were added to each fraction. No spiked samples were included in the 84 samples which are the subject of this report.

ODM also conduct blind internal KIM spike tests annually. These tests are much more exhaustive than client spike tests. They extend over 3-4 months, use natural KIM grains from sediments rather than grains milled from kimberlite, measure the recovery rate for each KIM species and include reprocessing of sample rejects to establish where any losses are occurring.

OVERBURDEN DRILLING MANAGEMENT LIMITED



Processing Flowsheet for Gold Grains + Kimberlite Indicators + MMSIMs

**OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY ABBREVIATIONS**

SEDIMENT LOG

Largest Clasts Present:

G: Granules
P: Pebbles
C: Cobbles

Matrix Organics:

ORG: Y: Organics present in matrix
N: Organics absent or negligible in matrix
+: Matrix is mainly organic

Clast Composition:

V/S: Volcanics and/or sediments
GR: Granitics
LS: Limestone, carbonates
OT: Other Lithologies (refer to footnotes)
TR: Only trace present
NA: Not applicable
OX: Very oxidized, undifferentiated

Matrix Colour:

Primary:
BE: Beige
GY: Grey
GB: Grey-beige
GN: Green
GG: Grey-green
PP: Purple
PK: Pink

Matrix Grain Size Distribution:

S/U: Sorted or Unsorted
SD: Sand (F: Fine; M: Medium; C: Coarse)
ST: Silt
CY: Clay
Y: Fraction present
+: Fraction more abundant than normal
-: Fraction less abundant than normal
N: Fraction not present

Secondary (soil):
OC: Ochre
BN: Brown
BK: Black

Secondary Colour Modifier:

L: Light
M: Medium
D: Dark

GOLD GRAIN LOG

Thickness:

VG: Visible gold grains
M: Actual measured thickness of grain (microns)
C: Thickness of grain (microns) calculated from measured width and length

KIM (kimberlite indicator mineral) LOG

GP: Purple to red peridotitic garnet (G9/10 Cr-pyrope)
GO: Orange mantle garnet; includes both eclogitic pyrope-almandine (G3) and Cr-poor megacrystic pyrope (G1/G2) varieties; may include unchecked (by SEM) grains of common crustal garnet (G5) lacking diagnostic inclusions or crystal faces
DC: Cr-diopside; distinctly emerald green (paler emerald green low-Cr diopside picked separately)
IM: Mg-ilmenite; may include unchecked (by SEM) grains of common crustal ilmenite lacking diagnostic inclusions or crystal faces
CR: Chromite
FO: Forsterite

**MMSIM (metamorphosed or magmatic massive sulphide indicator mineral)
and PCIM (porphyry Cu indicator mineral) LOGS**

Cpy: Chalcopyrite	Ky: Kyanite	Tm: Tourmaline	Fay: Fayalite	Mz: Monazite
Py: Pyrite	Mul: Mullite	St: Staurolite	Opx: Orthopyroxene	Spl: Spinel
Gth: Goethite	Sil: Sillimanite	Sp: Spessartine	Cr: Chromite	Ase: Anatase
Rut: Red Cr-rutile	And: Andalusite	Ol: Olivine	Ap: Apatite	

Microprobing

Any kimberlitic or potentially kimberlitic indicator grains picked by ODM were sent to CF Minerals (CFM) in Kelowna, British Columbia for microprobe analysis.

Selected grains are mounted in an ordered fashion in epoxy and then exposed by polishing to 1 micron after sectioning, followed by carbon coating to ~200 angstroms thickness. To save cost and time grains can be scanned with the electron microscope for definitive mineral identification. This is rapid and cost effective when surveying large numbers of grains. Only kimberlitic grains are then analyzed with costlier analytical techniques.

CFM uses either of two Cameca SX-50 electron microprobes to determine the concentrations of up to 11 major and significant minor elements for each grain. An appropriate suite of elements is chosen for each mineral species together with optimal counting and analytical conditions. Low Na analyses of eclogitic garnets are conducted using two analyses per grain. Reference standards, comprising the same mineral types and compositions to those of the major indicators, are analysed periodically during determination of the unknowns for quality control. After analysis is complete the oxide concentrations are used to classify each grain using proprietary techniques. A list with descriptions of the probe classifications is attached.

Morphological and textural examination of grains to determine transport distances and proximity to source may be conducted after microprobe analysis. The colour, surface texture and morphologies of each grain is recorded and photomicrographs taken if requested.

C.F. MINERAL RESEARCH LTD.

PROBE CLASSIFICATION DESCRIPTIONS

MINERAL	DESCRIPTION
1 ACTN	Actinolite
2 ACTN*	ACTN w comp.characteristic of skarn or massive sulfide deposits
3 AEG-AUGT	Aegirine-Augite
4 AEGR	Aegirine
5 AKER	Akermanite
6 AL-SI	Aluminum-Silicate
7 ALBT	Albite
8 ALM	Almandine
9 ALM-Mn	Almandine w high Mn
10 ALM-Mn*	ALM-Mn w comp.characteristic of skarn or massive sulfide depos.
11 AMPH	Amphibole
12 AMPH-AL	Aluminium-Amphibole
13 ANAL	Analcime
14 ANDR	Andradite
15 ANDR-Mn	Andradite w high Mn
16 ANDR-Ti-Mn	Andradite w high Ti-Mn
17 ANKR	Ankerite
18 APAT	Apatite
19 APAT*	APAT w comp.characteristic of skarn or massive sulfide deposits
20 APAT-WILK	Apatite, Wilkeite Series
21 APOP	Apophyllite
22 ARFV	Arfvedsonite
23 ARFV-K	Potassium Arfvedsonite
24 ARMA	Armalcolite
25 ASTR	Astrophyllite Series
26 AUGT	Augite
27 AUGT-TI	Augite W high Titanium
28 BADL	Baddeleyite
29 BARK	Barkevikite
30 BART	Barite
31 BART-SI	Silica-Barite
32 BART-SR	Strontium Barite
33 BARY	Barytocalcite
34 BIOT	Biotite
35 BIOT-TI	Biotite w high Titanium

MINERAL	DESCRIPTION
36 BIOT*	BIOT w comp.characteristic of skarn or massive sulfide deposits
37 BUST	Bustamite
38 CALC	Calcite
39 CANC	Cancrinite
40 CD	Chrome Diopside
41 CDRT	Cordierite
42 CE	Eclogitic Clinopyroxene
43 CE*	High Pressure Clinopyroxene of Eclogitic Paragenesis
44 CELS	Celestite
45 CHLORT	Chlorite
46 CHLRTD	Chloritoid
47 CORO	Coronadite
48 CORU	Corundum
49 CP	Peridotitic Clinopyroxene
50 CP*	High Pressure Clinopyroxene of Peridotitic Paragenesis
51 CP1	Clinopyroxene - Dawson's (modified by CFM) Gr. 1
52 CP2	Clinopyroxene - Dawson's (modified by CFM) Gr. 2
53 CP3	Clinopyroxene - Dawson's (modified by CFM) Gr. 3
54 CP4	Clinopyroxene - Dawson's (modified by CFM) Gr. 4
55 CP5	Clinopyroxene - Dawson's (modified by CFM) Gr. 5
56 CP6	Clinopyroxene - Dawson's (modified by CFM) Gr. 6
57 CP7	Clinopyroxene - Dawson's (modified by CFM) Gr. 7
58 CP8	Clinopyroxene - Dawson's (modified by CFM) Gr. 8
59 CP9	Clinopyroxene - Dawson's (modified by CFM) Gr. 9
60 CP10	Clinopyroxene - Dawson's (modified by CFM) Gr. 10
61 CPX	Clinopyroxene
62 CP DI	Clinopyroxene with diamond inclusion composition
63 CP DI\$	diamond inclusion composition of clinopyroxene from large diamond.
64 CP DIO or CPX	with diamond inclusion composition that overlaps
65 CP DIO\$	with fields of CPX's that classify from non diamond inclusion sources
66 CP DI*	or Favorable high pressure CPX with diamond inclusion
67 CP DI\$*	composition
68 CP DIO*	or High pressure CPX with diamond inclusion composition
69 CP DIO\$*	that overlap with fields of CPX's that classify from non diamond inclusion sources
70 CR	Chromite
71 CR-Ca	High Calcium chromite
72 CR-Si	High Silicon chromite
73 CR DI	Chromite with major element diamond inclusion composition
74 CR DI*	Diamond inclusion chromite from favorable harzburgite source

MINERAL	DESCRIPTION
75 CR TI	Chromite w high Ti (magmatic)
76 CR M/C	Mars/Cart classification of rock type provenance of chromites
77 CR K	Classified by Mars/Cart as being from Kimberlite sources
78 CR L	" " " " " " " " Lamproite "
79 CR U	" " " " " " " " Ultramafic "
80 CR G	" " " " " " " " Greenstone "
81 CRIC	Crichtonite
82 CUMN	Cummingtonite
83 CUMN-NA	Cummingtonite w high sodium
84 CV	Volcanic Clinopyroxene
85 DIOP	Diopside
86 DOLM	Dolomite
87 E	Eclogitic Garnet
88 ECKR	Eckermannite
89 ENST	Enstatite
90 ENST-L	Lamproitic Enstatite
91 EPID	Epidote - Clinozoisite
92 EPID*	EPID w comp.characteristic of skarn or massive sulfide deposits
93 FLSP	Feldspar
94 FLSP-BA	Feldspar w high Barium
95 G 1	CFM modification after Dawson's Gr. 1
96 G 2	CFM modification after Dawson's Gr. 2
97 G 3	CFM modification after Dawson's Gr. 3
98 G 4	CFM modification after Dawson's Gr. 4
99 G 5	CFM modification after Dawson's Gr. 5
100 G 6	CFM modification after Dawson's Gr. 6
101 G 7	CFM modification after Dawson's Gr. 7
102 G 8	CFM modification after Dawson's Gr. 8
103 G 9	CFM modification after Dawson's Gr. 9
104 G11	CFM modification after Dawson's Gr. 11
105 G12	CFM modification after Dawson's Gr. 12
106 G10	Gurney Group 10 Pyrope
107 G10-10*	Gurney (Best) 10 score category of G10 garnet
108 G10-9	Gurney 9 score category of G10 garnet
109 G10-8	Gurney 8 score category of G10 garnet
110 G10-7	Gurney 7 score category of G10 garnet
111 G10-6	Gurney 6 score category of G10 garnet
112 G10-5	Gurney 5 score category of G10 garnet
113 G10-4	Gurney 4 score category of G10 garnet
114 G10-3	Gurney 3 score category of G10 garnet
115 G10-2	Gurney (Least) 2 score category of G10 garnet

MINERAL	DESCRIPTION
116 G10-00	score category of G10 garnet w non diam.incl. comp.
117 G11-1	Gurney 1 score category of G11 garnet
118 G 9-1	Gurney 1 score category of G 9 garnet
Note: Gurney scores (after J. Lee, 1993), upgraded by CFM, has been demonstrated to be related to diamond grades of source kimberlites. An average pyrope score of 5, for example, implies a grade estimate of about 7 carats/100 tonnes attributable to garnet harzburgite.	
119 G1*	Gr.1 Eclogitic Garnet-Best diamond inclusion composition
120 G1	Gr.1 Eclogitic Garnet-2nd Best diamond inclusion composition
121 G2	Gr.2 "E" Garnets from Regional & Group 2 Non diamond bearing eclogite sources
122 GAHN	Gahnite
123 GLAS	Glass
124 GROS	Grossular
125 GROS-ANDR	Grossular-Andradite
126 GROS-Mn	Grossular w high Mn
127 GT	General Garnet
128 GT-Mn	Garnet w high Mn
129 GT-ZR-Ti	Zr-Ti Garnet
130 HEDN	Hedenbergite
131 HOLN	Hollandite
132 HORN	Hornblende
133 HUMI	Humite Group
134 IL	Ilmenite - Regional
135 IL-CA	Ilmenite w high calcium
136 IL-Mn	Ilmenite w high Mn
137 KAER	Kaersutite
138 KALS	Kalsilite
139 KAOL	Kaolinite
140 KNEB	Knebelite
141 KUTN	Kutnohorite
142 KYAN	Kyanite/Andalusite/Sillimanite
143 LEUC	Leucite
144 LEUC-L	Lamproitic Leucite
145 LPM	Low pressures megacrystic eclogitic garnet. Usually from kimberlite sources
146 HPM	High pressure Megacrystic eclogitic garnet. A diamond indicator mineral from kimberlite
147 MAGN	Magnetite
148 MAGN-Ti	Magnetite w high Ti

MINERAL	DESCRIPTION
149 MAGNS	Magnesite
150 MARG	Margarite
151 MELA	Melanite
152 MELI	Melilite
153 ../.	overlap fields, first field is most probable classification / second field is less probable but possible classification
154 MONT	Monticellite
155 NEPH	Nepheline
156 NEPT	Neptunite
157 NOSN	Nosean-Hauyne
158 OLV	Olivine
159 OLV-FORS	Olivine Forsterite
160 OLV-FAY	Olivine Fayalite
161 OLV-FAY*	OLV-FAY w comp.characteristic of skarn or massive sulfide depos
162 OLV-FAY-Mn	Olivine Fayalite w high Mn
163 OLV DI	Olivine w Diamond inclusion composition
164 OLV DI\$	Diamond inclusion composition of olivine from large diamonds
165 OLV DIO or Oliv.comp.equivalent to comp.of olivine from small or large(\$)	
166 OLV DIO\$	diamonds that overlaps w comp. of olivine from non diamondifrou sources
167 OP1	Orthopyroxene - Dawson's Gr. modified to classify all of the
168 OP2	Orthopyroxene - Dawson's Gr. orthopyroxenes included in diamond
169 OP3	Orthopyroxene - Dawson's Gr. 3}
170 OP4	Orthopyroxene - Dawson's Gr. 4}
171 OP5	Orthopyroxene - Dawson's Gr. 5}
172 OPX	Orthopyroxene
173 OPX DI	Orthopyroxene w Diamond inclusion composition
174 OPX-ENS	Enstatite
175 OPX-HY	Hypersthene
176 ORTH	Orthopyroxene
177 P	Peridotitic Garnet
178 PERC	Periclase
179 PERC-FE	Iron-Periclase
180 PERV	Perovskite
181 PHLG	Phlogopite
182 PHLG-TI	Phlogopite w high Titanium
183 PIEM	Piemontite
184 PIL	Picroilmenite
185 PLAG	Plagioclase

MINERAL	DESCRIPTION
186 PLEU	Pseudoleucite
187 PREH	Prehnite
188 PRID	Priderite
189 PSBK	Pseudobrookite
190 PSBK-FE	Iron-Pseudobrookite
191 PYRL	Pyrolusite
192 PYROPH	Pyrophanite
193 PYROX	Pyroxmangite
194 PYRP	Pyrope
195 PYRP-Mn	Pyrope w high Mn
196 QRTZ	Quartz
197 QRTZ-IMP	Impure Quartz
198 R	Regional Garnet
199 RHOD	Rhodonite
200 RICT	Richterite
201 RICT-K	Potassium Richterite
202 RIEB	Riebeckite
203 RIEB-K	Potassium Riebeckite
204 RUTL	Rutile
205 RUTL-NB	Niobium Rutile
206 RUTL-SI	Silicon Rutile
207 SALT	Salite
208 SAND	Sanidine
209 SAND-L	Lamproitic Sanidine
210 SAPH	Sapphirine
211 SERP	Serpentine
212 SHCH	Shcherbakovite
213 SIDR	Siderite
214 SI-ZR	Silica-Zircon
215 SODL	Sodalite
216 SPES	Spessartine
217 SPES*	Spessartine of Broken Hill Mine composition
218 SPHN	Sphene
219 SPNL	Spinel
220 SPNL-SI-AL	Si-Al Spinel
221 SPNL-Zn	High Zinc Spinel
222 STAU	Staurolite
223 STRN	Strontianite
224 TALC	Talc
225 TEPH	Tephroite
226 TOPZ	Topaz

MINERAL	DESCRIPTION
227 Tour-D*	Round brown dravitic tourmaline of composition & morphology consistent with being pseudomorph after jadeitic diopside from Group I (diamond bearing) eclogite
228 Tour-D	" " " tourmaline from Group II(non diamond bearing)eclogite
229 Tour-R*	Regional tourmaline with elevated K ₂ O-TiO ₂ composition
230 Tour-R	Tourmaline with comp.& morph. equivalent to regional tourmaline
231 Tourmalin	Tourmaline with no Boron analysis
232 TREM	Tremolite
233 UN01	Ca-Ti Silicate
234 UN02	K-Ti-Si Shcherbakovite like
235 UN03	Mn-Ti-Si
236 UN04	Ti Silicate Altered Sphene
237 UN05	Cr-Fe-Si-Mg-Al Si Altered Cr. spinel
238 UN06	Siliceous Titanites
239 UN07	Ca-Mg-Fe-Si Si Carbonate
240 UN08	Na-Fe-Si
241 UN09	Si Corundum
242 UN10	Ca-Ti-Fe Silicate Altered Sphene
243 UN11	Fe-Ti-Zr Silicate
244 UN12	W-Nb-Ti-Fe Oxide
245 UN13	Nb-Ti-Fe-Si
246 UN14	Fe-Mg-Al-Si
247 UN16	Na-Al-Si
248 UN21	Mg-Ca-Ti Oxide
249 UN24	Ca-Al-Si
250 UVAR	Uvarovite
251 UVAR-DI	Uvarovite with Diamond Incl. comp.
252 WAD	Wad
253 WADT	Wadeite
254 WILK	Wilkeite
255 WILM	Willemite
256 WOLA	Wollastonite
257 ZOIS	Zoisite
258 ZR-TI-GT	Zr-Ti Garnet

APPENDIX 5

LIST OF PERSONNEL

Name	Position	Address
Michael Grimley	Senior Project Geochemist	BHP Billiton Diamonds Inc, Vancouver , British Columbia
Doug Sweeney	Senior Safety Advisor	BHP Billiton Diamonds Inc, Vancouver , British Columbia
Richard Breger	Till sampler (geology student)	Montreal, Quebec
Joe Guerin	Till sampler (geology student)	Guelph, Ontario
Johnny Qilluniq	Camp Manager	Taloyoak, Nunavut
Isaac Saittuq	Camp & field support	Kuggaruk, Nunavut
Eric Nuluk	Till sampler, camp & field support	Repulse Bay, Nunavut
Leo Akkuardjuk	Till sampler, camp & field support	Repulse Bay, Nunavut
Tracey Le Nobel	Cook	Half Moon Bay, British Columbia
Donna Tinashlu	Cook	Repulse Bay, Nunavut
Mark Cusack	Helicopter Pilot	Great Slave Helicopters, Yellowknife, North West Territories
Mark Pearson	Helicopter Pilot	Great Slave Helicopters, Yellowknife, North West Territories
Kevin Clare	Engineer	Great Slave Helicopters, Yellowknife, North West Territories