



DIATECH
Ph 61 9 361 2596
Fx 61 9 470 1504

File: 97-028.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334657

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
23.80 kgs
44.3 grams
-1.2+0.20 mm

KEY MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Golden yellow, blue-grey, beige, translucent to opaque, tabular, subhedral.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		2 + 0.20mm, watery blue/colourless, rounded.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	90%	75%		Brown, red-brown, rounded, dull, earthy, angular.
GARNET			Tr		Almandine, pale pink, rounded.
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		5%	10%		Silvery-black, tabular, blocky.
KYANITE					
LEUCOXENE		Tr	5%		Brown, beige, opaque, angular.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Honey brown, beige, resinous, rounded.
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Black, opaque, silvery sheen, rounded.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		5%	10%		Black, brown, rarely coloured, well rounded.
XENOTIME					
ZIRCON		Tr	Tr		Colourless, orange, honey brown, beige, rounded, rare subhedral.
Al, Si, K, Fe.			Tr		Dark green, dull, earthy, rounded, blocky, fibrous.
ROCK FRAGMENTS					

COMMENTS:

Observed by: J.D/B.G.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334658

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
20.96 kgs
84.3 grams
-1.2+0.20 mm

KEY MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Blue, beige, translucent, rarely opaque, subhedral, tabular, blocky, slightly worn.
APATITE					
BARITE		Tr	Tr		Colourless, translucent, anhedral, blocky, moderately worn.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	88%		Yellow, orange-brown, anhedral, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	Tr		Silvery-black, sub/anhedral, subangular, tabular, moderately worn.
KYANITE					
LEUCOXENE		Tr	10%		Creamy, beige, greyish, dull to porcelain-like surfaces, moderately worn to worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Orange, orange-brown, resinous, opaque, rounded.
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Dark red, subtranslucent, anhedral, rounded.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	2%		Brown-black, anhedral, rounded.
XENOTIME					
ZIRCON			Tr		Colourless, orange, transparent, subhedral, prismatic, moderately worn.
ROCK FRAGMENTS					

COMMENTS:

Observed by: S.M./B.G.
Date: June, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334659

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

POSS KIMB?

STREAMSED
21.24 kgs
14.1 grams
-1.2+0.20 mm

KEY MINERALS	% +0.8	% +0.4	% +0.20	BRIEF DESCRIPTION
DIAMOND				
PYROPE				
CHROMITE/CR SPINEL			Tr	1 + 0.25mm, angular, black fragment, bright, smooth. Poss kimb? (MgO very low)
CHROME DIOPSIDE				
PICROILMENITE				
PHLOGOPITE				
OTHER				

OTHER MINERALS	% +0.8	% +0.4	% +0.20	BRIEF DESCRIPTION
AMPHIBOLE				
ANATASE			Tr	Palest blue-grey, grey, tabular, translucent subhedra, greasy lustre.
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM			Tr	Blue, transparent, subhedral.
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	100%	50%	Dull, red-brown, often composite grains.
GARNET				
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE			25%	Some are bright, silvery-black, blocky, others are quite dull subhedra, many partly leucoxenised.
KYANITE				
LEUCOXENE		Tr	25%	Beige, tan, cream, some rounded and polished, many others after ilmenite.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE			Tr	Cream, red-orange, well rounded, resinous, opaque.
PHOSPHATES	Tr		Tr	Cream, orange-brown, rounded, well worn, resinous.
PREHNITE				
PYROXENE				
RUTILE				
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE		Tr	Tr	Well rounded, black-brown, frosted to hummocky surfaces.
XENOTIME				
ZIRCON		Tr	Tr	Colourless, red-brown, orange, ovate, rare colourless, moderately worn euhedra.
ROCK FRAGMENTS				

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

COMMENTS:

Observed by: L.F./J.D.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334660

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
21.00 kgs
39.2 grams
-1.2+0.25 mm

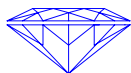
KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE		Tr			Colourless, white, frosted, blocky.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	90%		Brown, red-brown, rounded, blocky.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE			Tr		Black, dull, subangular, grooved, moderately worn.
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Orange-brown, resinous, rounded.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	10%		Black, brown, rounded, subhedral.
XENOTIME					
ZIRCON			Tr		Honey brown, pearly white.
ROCK FRAGMENTS					

COMMENTS:

Observed by: J.D.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334661

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
22.52 kgs
405.4 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE			Tr		Colourless, pale yellow, frosted, blocky.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	70%	65%		Brown, red-brown, dull, rounded, some stepped martite.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE		20%	20%		Black, thick, platy, silvery-black, rounded, worn.
ILMENITE			Tr		Silvery-black, subangular.
KYANITE					
LEUCOXENE			Tr		Brown, beige, angular, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES		Tr	Tr		Cream, brown, resinous, opaque, rounded.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Brown, black, well rounded.
XENOTIME					
ZIRCON			Tr		Honey brown, colourless, pale orange, well rounded, translucent to opaque.
ROCK FRAGMENTS		10%	15%		Haematite/Fe-oxide/quartz composites.

COMMENTS:
-1.2 + 0.8mm not magnetically separated.
-0.8 + 0.25mm has been magnetically separated.
M1/2/3 scalp not observed.
N/M fully observed.
M 6/7, 1/8 split observed.
M 4/5 fully observed.

Observed by: J.D.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334662

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
17.60 kgs
184.2 grams
-1.2+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE			Tr		Palest grey, worn, translucent grains.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	100%		Dull, red-brown, yellow-brown, encrusted, rare martite.
GARNET			Tr		1 + 0.25mm, sugary textured, pale pink, almandine, worn.
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE			Tr		Silvery-black, moderately worn, flat euhedral grains, some more blocky.
KYANITE					
LEUCOXENE			Tr		Beige, cream, grey, well rounded, quite dull, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE			Tr		2 + 0.25mm, fresh khaki green fragments.
RUTILE		Tr	Tr		Silvery-black, well rounded, opaque.
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Well rounded, black-brown grains, near spherical.
ZIRCON		Tr	Tr		Colourless, red-brown, yellow, orange, quite dull, rare more vitreous, colourless, broken euhedra.

COMMENTS: -0.8 + 0.25mm has been magnetically separated, M1/2/3 scalp not observed.

Observed by: L.F.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334663

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
27.58 kgs
73.0 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE		Tr	Tr		Midnight blue, grey-blue, tabular, subhedral.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	80%		Brown, red-brown, rounded, earthy, angular.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE			Tr		Dull black, blocky, platy, rare, specular.
ILMENITE		Tr	20%		Silvery-black, tabular, grooved, rounded, blocky.
KYANITE					
LEUCOXENE			Tr		Cream, beige, grey-blue, angular, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Black, cherry red, tabular, rounded.
SPHENE					
SPINEL					
STAUROLITE			Tr		Pale orange, frosted, blocky.
SULPHIDES					
TOURMALINE		Tr	Tr		Black, brown, translucent to opaque, well rounded, rare subhedral.
XENOTIME					
ZIRCON		Tr	Tr		Colourless, honey brown, pale orange, peach, well rounded, rare subhedral.
ROCK FRAGMENTS					

COMMENTS: -1.2 + 0.8mm not magnetically separated.
-0.8 + 0.25mm has been magnetically separated.
M1/2/3 scalp not observed.
Sample fully observed.

Observed by: J.D.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET (Pre probe)

SAMPLE NO

334664

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

POSITIVE

STREAMSED
20.58 kgs
2.9 grams
-1.2+0.20 mm

KEY MINERALS	% +0.8	% +0.4	% +0.20	BRIEF DESCRIPTION
DIAMOND			Tr	1 + 0.25mm, greenish-yellow, cubic, subtranslucent, pitted surface texture.
PYROPE				
CHROMITE/CR SPINEL				
CHROME DIOPSIDE				
PICROILMENITE				
PHLOGOPITE				
OTHER				

OTHER MINERALS	% +0.8	% +0.4	% +0.20	BRIEF DESCRIPTION
AMPHIBOLE				
ANATASE				
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	100%	40%	Red-brown, brown, yellow-brown, dull, rounded, earthy, includes rusty flakes.
GARNET				
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE		Tr	5%	Silvery-black, blocky to tabular, rounded, moderately worn.
KYANITE				
LEUCOXENE		Tr	5%	Beige, brown, grey, dull.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE				
PHOSPHATES			Tr	Pale creamy pink, orange, cream, rounded opaque.
PREHNITE				
PYROXENE		Tr	Tr	Brownish-yellow to brownish-green, subangular, translucent, moderately worn.
RUTILE			Tr	Orange-red, rounded.
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE		Tr	50%	Black-brown, frosted, well rounded.
XENOTIME				
ZIRCON			Tr	Orange, colourless, well rounded, rarely prismatic.
ROCK FRAGMENTS				

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

COMMENTS:

-1.2 + 0.25mm fully observed.
-0.25 + 0.20mm has been magnetically separated and fully observed.

Observed by: B.G.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334665

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
22.06 kgs
176.6 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE		Tr	Tr		Grey-blue, yellow-brown, pale yellow-beige, blue, sub/anedral, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		1 + 0.25mm, colourless/blue, rounded, moderately worn.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	100%		Orange-brown, red-brown, yellow-brown, dull, rounded, rare pseudomorph.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE			Tr		Silvery-black, red tints, blocky.
ILMENITE			Tr		Silvery-black, subhedral, rounded, tabular, moderately worn.
KYANITE					
LEUCOXENE		Tr	Tr		Beige, grey-green, brown, dull to more polished.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE		Tr	Tr		Yellow-brown, pale orange, orange, cream, rounded, opaque.
PHOSPHATES					
PREHNITE					
PYROXENE			Tr		1 + 0.25mm, yellow-brown, subangular, translucent, moderately worn.
RUTILE			Tr		Very rare, cherry red, reddish-black, rounded.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Black-brown, well rounded.
XENOTIME					
ZIRCON		Tr	Tr		Fe-stained, brown, beige, pale pink, sub/anhedra, moderately worn.
ROCK FRAGMENTS					

COMMENTS:

Observed by: B.G.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334666

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
23.98 kgs
46.5 grams
-1.2+0.25 mm

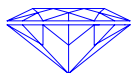
KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	94%		Yellow, reddish-brown, subangular, blocky, dull.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	Tr		Silvery-black, blocky, tabular, moderately worn.
KYANITE					
LEUCOXENE			5%		Creamy, beige, brown, sub/anedral, blocky, rounded.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE			Tr		Rare, golden brown, translucent, anhedral, rounded.
SULPHIDES					
TOURMALINE		Tr	1%		Brown-black, anhedral, rounded.
XENOTIME					
ZIRCON		Tr	Tr		Colourless, pink, transparent, anhedral, rounded.
ROCK FRAGMENTS					

COMMENTS:

Observed by: S.M.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334667

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
23.80 kgs
21.4 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Rare, yellow, subtranslucent, anhedral, rounded.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	97%		Yellow, orange-brown, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE			Tr		Silvery-black, sub/anhedral, blocky, tabular, moderately worn.
KYANITE					
LEUCOXENE			2%		Beige, brown, dull, blocky, worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Cherry red, translucent, anhedral, rounded.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE			1%		Brown-black, anhedral, blocky, rounded.
XENOTIME					
ZIRCON			Tr		Pink, colourless, transparent, anhedral, rounded.
ROCK FRAGMENTS					

COMMENTS:

Observed by: S.M.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334668

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
21.60 kgs
144.88 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Rare, blue, translucent, subhedral, blocky, moderately worn.
APATITE					
BARITE		Tr			Colourless, translucent, anhedral, blocky, moderately worn.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	93%		Yellow, reddish-brown, anhedral, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	5%		Silvery-black, sub/anhedral, blocky, subangular, moderately worn.
KYANITE					
LEUCOXENE			Tr		Creamy, beige, greyish, porcelain-like surfaces, blocky, rounded.
MAGNETITE					
MICA					
MN OXIDE			Tr		Greyish-black, anhedral, blocky, worn.
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Rare, dark red, subtranslucent, anhedral, blocky, worn.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	2%		Brown-black, black, anhedral, blocky, rounded, worn.
XENOTIME					
ZIRCON			Tr		Rare, colourless, transparent, anhedral, rounded.
ROCK FRAGMENTS					

COMMENTS: Concentrate fully observed.

Observed by: S.M.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334669

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
20.88 kgs
7.48 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	BRIEF DESCRIPTION
DIAMOND				
PYROPE				
CHROMITE/CR SPINEL		Tr	Tr	3 + 0.4mm, 3 + 0.25mm, grey-black, brown, dull, rounded octahedra, well rounded.
CHROME DIOPSIDE				
PICROILMENITE				
PHLOGOPITE				
OTHER				

OTHER MINERALS	% +0.8	% +0.4	% +0.25	BRIEF DESCRIPTION
AMPHIBOLE				
ANATASE				
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM		Tr	Tr	Blue, colourless, included, tabular, subhedral, rounded.
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	80%	40%	Brown, red-brown, rounded, earthy.
GARNET			Tr	Pale pink, rounded, almandine.
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE		10%	25%	Silvery-black, tabular, subangular, grooved.
KYANITE				
LEUCOXENE		Tr	Tr	Brown, beige, subangular, opaque.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE				
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE		Tr	Tr	Black, orange-red, silvery sheen, rounded.
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE	Tr	10%	35%	Black, brown, well rounded.
XENOTIME				
ZIRCON		Tr	Tr	Orange, colourless, frosted, well rounded, rare subhedral.
ROCK FRAGMENTS				

COMMENTS:

Observed by: J.D.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334670

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
22.62 kgs
735.33 grams
-1.2+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE					
APATITE					
BARITE	Tr	Tr	1%		Colourless, translucent, sub/anhydral, blocky, tabular, moderately worn.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	97%		Yellow, reddish-brown, dull, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	1%		Silvery-black, sub/anhydral, subangular, blocky, moderately worn.
KYANITE					
LEUCOXENE		Tr	1%		Creamy, beige, greyish, dull to subporcelain, blocky, rounded.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES		Tr	Tr		Orange, resinous, opaque, anhydral, rounded.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE			Tr		Golden brown, transparent, anhydral, blocky, worn.
SULPHIDES					
TOURMALINE		Tr	Tr		Brown-black, anhydral, rounded.
XENOTIME					
ZIRCON		Tr	Tr		Pink, colourless, transparent, anhydral, rounded.
ROCK FRAGMENTS					

COMMENTS: -1.2+0.8 fully obs.
-0.8+0.25 concentrate magnetically separated.
N/M -0.8+0.25 fully obs.
M6/7 -0.8+0.4, ¼ obs, -0.4+0.25, ½ obs.
M4/5 -0.8+0.25 fully obs.

Observed by: S.M.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334671

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
20.84 kgs
35.65 grams
-1.2+0.25 mm

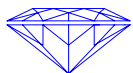
KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	50%		Brown, orange-brown, red-brown, dull, rounded, blocky, earthy.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	40%		Silvery-black, subangular, tabular, grooved.
KYANITE					
LEUCOXENE			Tr		Cream, beige, angular, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	10%		Black, brown, well rounded.
XENOTIME					
ZIRCON			Tr		Pale orange, colourless, well rounded.
ROCK FRAGMENTS					

COMMENTS: Concentrate fully observed.

Observed by: J.D.
Date: July, 1997



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334672

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
20.12 kgs
1398.72 grams
-1.2+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE			Tr		1+0.25, yellow, well rounded, translucent.
APATITE					
BARITE	Tr	Tr	Tr		White to colourless, globular to platy, translucent to opaque.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE			Tr		Dull, pale yellow, rounded, opaque, granulated.
FE OXIDE/HYDROXIDE	100%	100%	95%		Red-brown, yellow-brown, grey-black, dull, rounded.
GARNET			Tr		Almandine, pink, subangular, moderately worn.
GOLD					
GORCEIXITE					
HAEMATITE	Tr	Tr	Tr		Silvery, platy, blocky.
ILMENITE		Tr	5%		Silvery-black, sub/anhedral, moderately worn.
KYANITE					
LEUCOXENE			Tr		Beige, brown, grey-green, polished.
MAGNETITE					
MICA					
MN OXIDE		Tr	Tr		Dull grey, globular, soft; also dull, brassy, brown aggregates.
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Reddish-grey, cherry red, anhedral, rounded.
SPHENE					
SPINEL					
STAUROLITE			Tr		Rare, orange-brown, rounded, included.
SULPHIDES					
TOURMALINE		Tr	Tr		Black-brown, well rounded.
XENOTIME					
ZIRCON			Tr		Rare, colourless, Fe-stained, palest pink, sub/anhedra.
ROCK FRAGMENTS					

COMMENTS: -1.2+0.8 fully obs.
-0.8+0.25 ¼ obs.

Observed by: B.G.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334673

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
21.30 kgs
808.78 grams
-1.2+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE					
APATITE					
BARITE	Tr	Tr	Tr		Colourless, subtranslucent, anhedral, blocky, tabular, moderately worn.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	100%		Yellow, reddish-brown, dull, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	Tr		Silvery-black, sub/anhedral, blocky, moderately worn.
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE		Tr	Tr		Grey, dull, anhedral, rounded.
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Rare, dark red, subtranslucent, anhedral, rounded.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Brown-black, anhedral, blocky, rounded, worn.
XENOTIME					
ZIRCON			Tr		Pink, colourless, Fe-stained, transparent, anhedral, rounded.
ROCK FRAGMENTS					

COMMENTS: -1.2+0.25, ¼ obs.

Observed by: S.M.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334674

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
16.36 kgs
213.92 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

% % %

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Sky blue, tabular, subhedral. Rare.
APATITE					
BARITE			Tr		White, colourless, frosted, granular, blocky.
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Pale blue, tabular, subhedral. Rare.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	80%		Brown, red-brown, rounded, blocky, dull earthy.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	10%		Silvery-black, tabular, subangular.
KYANITE					
LEUCOXENE			Tr		Brown, beige, angular, rounded, opaque.
MAGNETITE					
MICA			Tr		Biotite, dark brown, subtranslucent flake.
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	10%		Black, brown, well rounded.
XENOTIME					
ZIRCON			Tr		Yellow, honey brown, well rounded.
ROCK FRAGMENTS					

COMMENTS: Concentrate fully observed.

Observed by: J.D.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334675

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
17.18 kgs
227.23 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

% % %

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	85%		Brown, red-brown, rounded, dull earthy fragments.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE			Tr		Black, specular, micaceous.
ILMENITE		Tr	10%		Silvery-black, tabular, subangular, grooved.
KYANITE					
LEUCOXENE			Tr		Brown, angular, opaque.
MAGNETITE					
MICA		Tr	Tr		Dull, grey-black, angular.
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	5%		Black, brown, well rounded.
XENOTIME					
ZIRCON			Tr		Pale orange, colourless, rounded.
ROCK FRAGMENTS					

COMMENTS: Concentrate fully observed.

Observed by: J.D.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334678

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
23.58 kgs
223.86 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

% % %

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Golden yellow, rounded, opaque.
APATITE					
BARITE	Tr	5%	5%		White, frosted, etched, blocky, rounded, tabular.
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Colourless/blue, rounded.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	95%	75%		Brown, red-brown, rounded, blocky, dull earthy.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	20%		Silvery-black, tabular, grooved, subangular.
KYANITE					
LEUCOXENE			Tr		Brown, beige, angular, opaque.
MAGNETITE					
MICA					
MN OXIDE	Tr	Tr	Tr		Grey-black, angular, rounded.
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Black, cherry red, elongate, rounded, silvery sheen.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Black, brown, rounded.
XENOTIME					
ZIRCON			Tr		Pale yellow, colourless, well rounded.
ROCK FRAGMENTS					

COMMENTS: Concentrate fully observed.

Observed J.D.
by: July, 1997.
Date:



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334679

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
24.48 kgs
187.47 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

% % %

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
ANDALUSITE			Tr		Rare, pink, transparent, anhedral, blocky, moderately worn.
APATITE					
BARITE		Tr	Tr		Colourless, translucent, opaque, sub/anhedral, blocky, tabular, moderately worn.
CALCITE					
CASSITERITE					
CORUNDUM		Tr	Tr		Violet blue, pale blue, transparent, sub/anhedral, tabular, blocky, moderately worn.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	99%		Yellow, orange-brown, dull, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	1%		Silvery-black, sub/anhedral, blocky, tabular, moderately worn.
KYANITE					
LEUCOXENE		Tr	Tr		Creamy, beige, dull to porcelain-like surfaces, blocky, rounded.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES		Tr	Tr		Pale orange, opaque, sub-resinous, anhedral, rounded.
PREHNITE					
PYROXENE					
RUTILE			Tr		Dark red, subtranslucent, anhedral, blocky, worn.
SPHENE					
SPINEL					
STAUROLITE		Tr	Tr		Golden brown, transparent, anhedral, blocky, moderately worn.
SULPHIDES					
TOURMALINE		Tr	Tr		Brown-black, anhedral, blocky, rounded.
XENOTIME					
ZIRCON			Tr		Pink, transparent, anhedral, worn.
ROCK FRAGMENTS					

COMMENTS: Concentrate fully observed.

Observed by: S.M.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334680

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
20.14 kgs
517.54 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

% % %

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Colourless/blue.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	85%		Brown, red-brown, rounded, dull earthy.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	10%		Silvery-black, angular, subangular, tabular, grooved.
KYANITE					
LEUCOXENE			Tr		Beige.
MAGNETITE					
MICA					
MN OXIDE			Tr		Dull grey-black, rounded.
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Cherry red, rounded, silvery sheen.
SPHENE					
SPINEL					
STAUROLITE			Tr		Orange-brown, frosted, rounded.
SULPHIDES					
TOURMALINE		Tr	5%		Brown, black, well rounded.
XENOTIME					
ZIRCON					
ROCK FRAGMENTS					

COMMENTS: -1.2+0.4 fully obs.
-0.4+0.25 ½ obs.

Observed J.D.
by: July, 1997.
Date:



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334681

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
21.98 kgs
554.93 grams
-1.2+0.25 mm

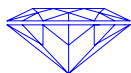
KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.25 black, dull, broken, subhedral, very finely textured surface.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Beige/yellow, subhedral, moderately worn. Very rare.
APATITE					
BARITE			Tr		Very rare. Colourless, beige, transparent to sub-translucent, moderately worn.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE			Tr		Very rare. Pale yellow-green, translucent, moderately worn.
FE OXIDE/HYDROXIDE	100%	97%	80%		Yellow-brown, red-brown, dull, pisolitic.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	18%		Silvery-black, angular, sub/anhedra, moderately worn.
KYANITE					
LEUCOXENE			Tr		Grey-blue, beige, brown, dull.
MAGNETITE					
MICA					
MN OXIDE		3%	Tr		Grey-black, rounded.
MONAZITE					
PHOSPHATES			Tr		Pale orange, orange, well rounded opaques.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE			Tr		Rare. Orange-brown, rounded, small black inclusions, moderately worn.
SULPHIDES					
TOURMALINE		Tr	2%		Black-brown, well rounded.
XENOTIME					
ZIRCON			Tr		Orange, Fe-stained, well rounded.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

COMMENTS: Concentrate fully observed.

Observed by: B.G.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334682

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
20.68 kgs
1507.74 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Very rare. Blue, subhedral, moderately worn.
APATITE					
BARITE			Tr		Colourless, blocky to angular, transparent to translucent.
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Synthetic? 4+0.25 milky beige/blue, subangular; 2+0.25 colourless, sub-rounded, transparent, included.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	100%		Red-brown, yellow-brown, brown, dull, pisolitic.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	Tr		Silvery-black, sub/anhedral, moderately worn.
KYANITE					
LEUCOXENE			Tr		Brown, beige, grey-green, dull to more polished.
MAGNETITE					
MICA					
MN OXIDE	Tr	Tr	Tr		Dull grey-black, rounded.
MONAZITE		Tr	Tr		Very rare. Orange, well rounded, opaque.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Very rare. Cherry red, rounded, translucent.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Black-brown, well rounded.
XENOTIME					
ZIRCON			Tr		Orange, well rounded.

COMMENTS:
-1.2+0.8 fully obs.
-0.8+0.25 concentrate magnetically separated.
NM -0.8+0.25 fully obs.
M6/7 -0.8+0.25 ¼ obs.
M4/5 -0.8+0.25 fully obs.
M1/2/3 scalp not observed.

Observed by: B.G.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334683

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
20.38 kgs
80.46 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
ANDALUSITE			Tr		Rare, pale pink, transparent, anhedral, blocky, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	94%		Yellow, reddish-brown, dull, anhedral, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	5%		Silvery-black, sub/anhedral, tabular, blocky, moderately worn.
KYANITE					
LEUCOXENE			1%		Creamy, beige, greyish, porcelain-like surface, blocky, moderately worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			Tr		Rare, yellow, translucent, subhedral, blocky, worn.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Brown-black, anhedral, rounded.
XENOTIME					
ZIRCON					
ROCK FRAGMENTS					
COMMENTS: Concentrate fully observed					Observed by: S.M. Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334684

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
21.14 kgs
354.42 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Grey-blue, translucent, tabular, subhedral.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM		Tr			Blue-colourless, tabular, subhedral.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	65%		Brown, mustard, red-brown, rounded, dull earthy.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	30%		Silvery-black to dull black, subangular, grooved.
KYANITE					
LEUCOXENE			Tr		Beige, blue-grey, rounded, opaque.
MAGNETITE					
MICA					
MN OXIDE		Tr	Tr		Grey-black, rounded.
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Cherry red, rounded, silvery sheen.
SPHENE					
SPINEL					
STAUROLITE			Tr		Pale orange, rounded, frosted.
SULPHIDES					
TOURMALINE		Tr	5%		Brown, black, well rounded, angular.
XENOTIME					
ZIRCON			Tr		Colourless, orange, well rounded.
ROCK FRAGMENTS					
COMMENTS:	-1.2+0.4 fully obs. -0.4+0.25 ½ obs.				Observed by: J.D. Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334685

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

STREAMSED
18.44 kgs
46.94 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE		Tr	Tr		Blue, beige, sub/anhedra, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	90%	12%		Orange-brown, red-brown, dull, pisolitic.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		10%	85%		Grey-black, dull sub/anhedra, moderately worn.
KYANITE					
LEUCOXENE		Tr	Tr		Beige, brown, cream, generally dull.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			Tr		Brown, orange, opaque, well rounded.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Very rare. Cherry red, rounded.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	3%		Black-brown, well rounded.
XENOTIME					
ZIRCON			Tr		Orange-brown, red, well rounded.
ROCK FRAGMENTS					
COMMENTS: Concentrate fully observed.					Observed by: B.G. Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334686

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

POSS KIMB

STREAMSED
22.50 kgs
157.2 grams
-2.0 + 0.20 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		2 + 0.25mm, 9 + 0.20mm, dull black, rounded, finely pitted, smooth, the smaller grains are rounded octahedra. silvery-black, rounded octahedra, pitted. (1 + 0.25 and 1 + 0.20 poss kimb).
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE			Tr		Golden yellow, subhedral, opaque.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	60%		Brown, red-brown, orange-brown, dull, rounded, angular fragments.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	25%		Silvery-black, dull black, blocky, tabular, angular.
KYANITE					
LEUCOXENE		Tr	Tr		Beige, cream, brown, angular, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			Tr		Rare. Opaque, orange-brown, rounded.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Cherry red, opaque, rounded, frosted.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	15%		Black, brown, green, well rounded.
XENOTIME					
ZIRCON			Tr		Colourless, orange, well rounded.
ROCK FRAGMENTS					
COMMENTS:				Observed by: J.D. Date: June, 1997.	



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334687

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

LOAM
16.64 kgs
4.8 grams
-2.0 + 0.20 mm

KEY MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	99%	40%		Reddish-Brown, brown, dull, blocky, worn.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	10%		Silvery-black, anhedral, blocky, tabular, moderately worn.
KYANITE					
LEUCOXENE			20%		Beige, brown, dull, anhedral, subangular, blocky, moderately worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Orange-brown, resinous, opaque, rounded.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		1%	30%		Brown-black, black, anhedral, rounded.
XENOTIME					
ZIRCON			Tr		Rare, pink, transparent, anhedral, worn.
ROCK FRAGMENTS					

COMMENTS:

Observed by: S.M.
Date: June, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334615R

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

ROCK
1.06 kgs
457.8 grams
-1.2+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

AMPHIBOLE					
ANATASE					
APATITE					
BARITE			Tr		White, frosted, rounded, blocky.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE					
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE			Tr		Silvery-black, tabular, subangular.
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE			Tr		Pale greenish-brown, elongate.
RUTILE					
SPHENE					
SPINEL					
STAUROLITE			Tr		Orange, rounded, slight frosting.
SULPHIDES		Tr			Rare. Brassy yellow, granular.
TOURMALINE					
XENOTIME					
ZIRCON					
ROCK FRAGMENTS					

COMMENTS: -1.2+0.25 concentrate magnetically separated.
N/M -1.2+0.25 fully obs.
M6/7 -1.2+0.8 fully obs, -0.8+0.4 ½ obs, -0.4+0.25 ¼ obs.
M4/5 -1.2+0.25 fully obs.
M1/2/3 scalp not observed.

Observed by: J.D.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334616R

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

ROCK
1.12 kgs
167.4 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL		Tr			1 + 0.4mm, soft silvery-black, euhedral, 'sculptured surface', very black and vitreous where broken. Not kimb.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

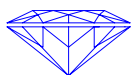
OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CORUNDUM					
EPIDOTE			Tr		Rare, yellow-green, subtranslucent, anhedral, rounded.
FE OXIDE/HYDROXIDE	97%	96%	96%		Yellow, reddish-brown, dull, angular, blocky, moderately worn.
GARNET					
GOLD					
GORCEIXITE					
ILMENITE					
KYANITE					
LEUCOXENE			Tr		Beige, dull, subhedral, blocky, worn.
MAGNETITE					
MICA					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE		Tr	Tr		Sage green, greenish-brown, translucent, anhedral, blocky, subangular, slightly worn.
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE					
XENOTIME					
ZIRCON					
ROCK FRAGMENTS	3%	4%	4%		Pyroxene/amphibole composites.

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

COMMENTS:

*Note: The TBE conc is essentially decomposed rock fragments as opposed to individual mineral grains. Concentrated HCl washing of sample 334627R (similar material) did not liberate the mineral grains either. -0.8 + 0.25mm, concentrate magnetically separated, M1/2/3 scalp not observed. +0.8mm fully observed. N/M -0.8 + 0.25mm fully observed. M 6/7 -0.8 + 0.25mm, ¼ split observed. M 4/5 - 0.8 + 0.25mm fully observed.

Observed by: S.M.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334623R

ASSESSMENT

Type of sample

Head Weight

Raw Weight -1.2+0.25mm

Size fractions observed

NEGATIVE

ROCK

3.16

kgs

1792.95

grams

-1.2+0.25

mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

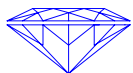
Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE					
GARNET					
GOLD					
GORCEIXITE					
ILMENITE					
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
SULPHIDES					
TOURMALINE					
XENOTIME					
ZIRCON					
ROCK FRAGMENTS	100%	100%	100%		(Mg Al Si Ca Fe) dark to pale green/colourless, subtranslucent to opaque, blocky, angular fragments.

COMMENTS: *Note: The conc was observed as a raw crushed sample. It is essentially decomposed rock fragments as opposed to individual mineral grains. Concentrate HCl washing of sample 334627R (similar material) did not liberate the mineral grains either.
Sample has been magnetically separated, M1/2/3 scalp not observed.
N/M fully observed.
M 6/7 -1.2mm + 0.4mm, ¼ split observed
-0.4mm + 0.25mm, 1/8 split observed.
M 4/5 -1.2mm + 0.25mm, ¼ split observed.

Observed
by:
Date:

J.D.
July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334624R

ASSESSMENT

Type of sample

Head Weight

Raw Weight -1.2+0.25mm

Size fractions observed

NEGATIVE

ROCK

2.08 kgs

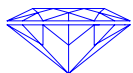
1064.78 grams

-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	20%	30%	30%		Red-brown, brown, angular, earthy.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE					
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE					
XENOTIME					
ZIRCON					
ROCK FRAGMENTS	80%	70%	70%		Fe-oxide/pyroxene/quartz composites, weathered fragments.
COMMENTS:	-1.2+0.25 concentrate magnetically separated. N/M -1.2+0.25 fully obs. M6/7 -1.2+0.4 fully obs, -0.4+0.25 ½ obs. M4/5 -1.2+0.8 fully obs, -0.8+0.25 ½ obs. M 1/2/3 scalp not observed.				Observed J.D. by: July, 1997. Date:



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334627R

ASSESSMENT

Type of sample

Head Weight

Wilfley Conc Weight -1.2+0.25mm

Size fractions observed

NEGATIVE

ROCK

7.82 kgs

3620.01 grams

-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE					
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	Tr		Dull silvery-black, subhedral, moderately worn.
KYANITE					
LEUCOXENE			Tr		Rare. Brown, beige, subhedral to rounded, subporcelain-like surface.
MAGNETITE					
MICA					
MN OXIDE		Tr	Tr		Dull grey, rounded.
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Rare. Dull silvery-black, blocky, moderately worn.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE					
XENOTIME					
ZIRCON					
ROCK FRAGMENTS	100%	100%	100%		Essentially Fe, orange-brown, dull, earthy, decomposed.

COMMENTS: *Note: The concentrate was observed as a TBE separated split of the crushed/wilfley tabled and acid washed sample. Concentrated HCl washing did not liberate the mineral grains, nor did it reduce the volume of material (only 12% reduction). The sample is essentially decomposed rock fragments as opposed to individual mineral grains. -1.2+0.25 1/10 obs.

Observed by: B.G.
Date: July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334635R

ASSESSMENT

Type of sample

Head Weight

Wilfley Conc Weight -1.2+0.25mm

Size fractions observed

NEGATIVE

ROCK

15.66

7023.83

-1.2+0.25

kgs

grams

mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE					
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE					
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE					
XENOTIME					
ZIRCON					
ROCK FRAGMENTS	100%	100%	100%		Dull Grey, reddish-grey, earthy, angular, ferruginous.

COMMENTS:

*Note: The conc was observed as a crushed/wilfley concentrated sample. It is essentially decomposed rock fragments as opposed to individual mineral grains. Concentrate HCl washing of sample 334627R (similar material) did not liberate the mineral grains either.
-1.2+0.8 fully obs.
-0.8+0.25 ¼ obs.

Observed

by:

Date:

J.D.

July, 1997.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334643R

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

ROCK
2.40 kgs
3.5 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE					
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE			Tr		Silvery-black slivers, intergrown with quartz.
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE			Tr		Rare, brown lath, fresh, small inclusions.
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE					
XENOTIME					
ZIRCON					
ROCK FRAGMENTS	100%	100%	100%		Brick red, earthy yellow composite ferruginous fragments, some enclosing broken quartz grains.

COMMENTS:

Observed by: L.F.
Date: July, 1997.



DIATECH
Ph 61 9 361 2596
Fx 61 9 470 1504

File: 97-028.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334647R

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed

NEGATIVE

ROCK
4.46 kgs
270.23 grams
-1.2+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE		Tr	Tr		Pale green, subtranslucent, anhedral, blocky.
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	80%	90%	98%		Yellow-brown, reddish-brown, dull, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
GREEN MINERAL	Tr	Tr	Tr		Green, earthy, dull, subangular, blocky, Al, Si, K, Fe.
HAEMATITE					
ILMENITE					
KYANITE					
LEUCOXENE			Tr		Beige, anhedral, blocky, rounded, subporcelain-like surface.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE			Tr		Olive green, translucent, anhedral, subangular, blocky, moderately worn.
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES			Tr		Rare. Brassy yellow, subhedral, slightly worn.
TOURMALINE			Tr		Rare. Brownish-yellow, translucent, anhedral, blocky, moderately worn.
XENOTIME					
ZIRCON			Tr		Colourless, Fe-stained, anhedral, rounded, worn.
ROCK FRAGMENTS	20%	10%	2%		Fe-oxide/quartz, subangular, blocky.

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

COMMENTS:	Concentrate magnetically separated. N/M -1.2+0.25 fully obs. M6/7 -1.2+0.8 fully obs, -0.8+0.4 ¼ obs, -0.4+0.25 1/8 obs. M4/5 -1.2+0.8 fully obs, -0.8 +0.25 ¼ obs. M1/2/3 scalp not obs.	Observed by: Date:	S.M. July, 1997.
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