



DIATECH  
Ph 61 9 361 2596  
Fx 61 9 470 1504

File: 97-027.doc

# HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334601**

## ASSESSMENT

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

## NEGATIVE

STREAMSED  
22.46 kgs  
157.2 grams  
-1.2+0.20 mm

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

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Silvery-grey, blue-grey, subhedral, translucent to opaque.
APATITE					
BARITE		Tr	Tr		White, translucent, anhedral, blocky, moderately worn.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	90%	20%		Reddish-brown, brown, dull, anhedral, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	9%	79%		Silvery-black, sub/anhedral, tabular, blocky, moderately worn.
KYANITE					
LEUCOXENE		1%	1%		Beige, brown, porcelain-like surfaces, blocky, tabular, moderately worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES	Tr	Tr	Tr		Brown, orange-brown, opaque, resinous, anhedral, blocky, moderately worn.
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Cherry red, reddish-black, sub/anhedral, prismatic, blocky, moderately worn to worn.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE			Tr		Brown-black, anhedral, rounded.
XENOTIME					
ZIRCON			Tr		Colourless, transparent, anhedral, 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:** +0.8mm, + 0.4mm fully observed.  
+0.25mm, ¼ split observed.  
+0.20 has been magnetically separated, fully observed.  
M1/2/3 scalp not observed.

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



DIATECH  
Ph 61 9 361 2596  
Fx 61 9 470 1504

File: 97-027.doc

# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334602

## ASSESSMENT

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

## NEGATIVE

STREAMSED  
30.50 kgs  
434.4 grams  
-1.2+0.20 mm

KEY MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL		Tr	Tr		1 + 0.4mm, 1 + 0.25mm, Brown-black, frosted surface, vitreous core.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Pale blue, translucent, subhedral, blocky, moderately worn
APATITE					
BARITE	Tr	Tr	Tr		White, translucent, anhedral, blocky, tabular, moderately worn.
CALCITE					
CASSITERITE		Tr			Orange, resinous, translucent, anhedral, rounded.
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	89%	10%		Reddish-brown, brown, anhedral, blocky, rounded, worn.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		10%	90%		Silvery-black, sub/anhedral, tabular, blocky, moderately worn.
KYANITE					
LEUCOXENE	Tr	1%	Tr		Beige, brown, grey, porcelain-like surface, moderately worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES	Tr	Tr	Tr		Orange-brown, resinous, opaque, anhedral, rounded.
PREHNITE					
PYROXENE			Tr		Yellow-green, translucent, anhedral, blocky, moderately worn.
RUTILE	Tr	Tr	Tr		Orange-red, blackish-red, anhedral, rounded.
SPHENE		Tr			Yellow-brown, transparent, anhedral, blocky, moderately worn. Rare.
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE	Tr	Tr	Tr		Brow-black, anhedral, rounded.
XENOTIME					
ZIRCON		Tr	Tr		Colourless, pink, transparent, anhedral, blocky, rounded, worn.
ROCK FRAGMENTS					
<b>COMMENTS:</b> Sample concentrate has been magnetically separated. Fully observed except for +0.25, M4/5, 1/32 split observed. + 0.20, M 4/5, 1/2 split observed.					Observed by: S.M. Date: June, 1997.



DIATECH  
Ph 61 9 361 2596  
Fx 61 9 470 1504

File: 97-027.doc

# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334603

## ASSESSMENT

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

## NEGATIVE

STREAMSED  
17.74 kgs  
226.1 grams  
-2.0+0.20 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr	1 + 0.25mm	black, dull, rounded, subhedral, smooth satin sheen.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Silvery-grey, translucent, flat subhedra.
APATITE					
BARITE		Tr			White, blocky, frosted, etched. Rare.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	70%	10%		Brown, red-brown, rounded, blocky.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		30%	90%		Silvery-black, tabular, blocky, grooved.
KYANITE					
LEUCOXENE		Tr	Tr		Grey-green, beige, brown, cream, angular, rounded, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE			Tr		Pale brown, blocky, subtranslucent, fibrous looking.
RUTILE		Tr	Tr		Cherry red, red-brown, rounded, subhedral, surface striate.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Black, brown, well rounded.
XENOTIME					
ZIRCON		Tr	Tr		Honey brown, orange, colourless, transparent to opaque, well rounded.

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:

-2.0 + 0.4MM fully observed.  
-0.4 + 0.20mm has been magnetically separated.  
M 1/2/3 scalp not observed.  
+0.25mm N/M, M 6/7 fully observed.  
M 4/5, 1/8 split observed.  
+ 0.20mm fully observed.

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



DIATECH  
Ph 61 9 361 2596  
Fx 61 9 470 1504

# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334604

## ASSESSMENT

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

## NEGATIVE

STREAMSED  
17.66 kgs  
34.3 grams  
-2.0+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 <b>absolute number</b> 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	1 + 0.25mm, pale yellow, anhedral, moderately worn.	
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE			Tr	Very rare. Yellow-green, translucent, moderately worn.	
FE OXIDE/HYDROXIDE	100%	90%	28%	Yellow-brown, orange-brown, dull, rounded.	
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	10%	70%	Silvery-black, subhedral, subangular, blocky, rounded, moderately worn.	
KYANITE					
LEUCOXENE	Tr	Tr	2%	Beige, brown, grey-green, sub/anhedral, porcelain-like surface.	
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE		Tr	Tr	Very rare. Orange, resinous, well rounded, opaque.	
PHOSPHATES		Tr	Tr	Very rare. Orange-brown, blocky, rounded, opaque.	
PREHNITE					
PYROXENE					
RUTILE			Tr	Very rare. Cherry red, elongate, striate, moderately worn.	
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE	Tr	Tr	Tr	Black-brown, well rounded.	
XENOTIME					
ZIRCON		Tr	Tr	Colourless, Fe-stained, well rounded.	
ROCK FRAGMENTS					

COMMENTS: -2.0mm + 0.25mm fully observed.

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