

DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 98-041.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354600

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
38.78 kgs
5848.8 grams
-2.0+0.25 mm
417

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			Tr		Colourless, transparent prismatic crystals
BARITE	Tr	Tr			White, pale yellow, tabular, blocky to rounded, opaque, also pale orange, frosted with slight etching
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	5%	5%		Brown, brick-red, tan, dull well rounded, also earthy fragments
GARNET					
GOLD					
GORCEIXITE	Tr	Tr			Red-brown, orange, opaque amorphous grains with a resinous lustre
HAEMATITE					
ILMENITE	Tr	95%	95%		Silvery-black, subhedral, subangular to more rounded, most have a high metallic lustre
KYANITE					
LEUCOXENE		Tr	Tr		Brown, grey, cream, rounded to subangular, opaque
MN OXIDE					
OLIVINE?			Tr		Rare, yellow, translucent, subhedral, also quite rounded grains
PYROXENE	Tr	Tr	Tr		Brown, greyish brown, elongate to more rough, blocky, opaque
RUTILE	Tr	Tr	Tr		Red-black, orange-brown, translucent to opaque, semi-metallic lustre
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Brown, well rounded, moderately worn
UNKNOWN MINERAL		Tr	Tr		Dark olive green, dull opaque and well rounded, SEM indicates Al Si K Fe
ZIRCON			Tr		Colourless, broken euhedra, transparent, rare
ROCK FRAGMENTS	Tr	Tr			Pyroxene/Fe Oxide/ilmenite/quartz composite

COMMENTS: -2.0+1.2 grease table concentrated. No diamonds recovered.

Observed by: JD

Date: Aug 98

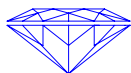
-1.2+0.8 fully obs
-0.8+0.25 Concentrate magnetically separated

NM -0.8+0.4 fully obs, -0.4+0.25 ½ obs

M6/7 -0.8+0.25 1/16 obs

M4/5 -0.8+0.25 not observed

M1/2/3 scalp not observed



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354601

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
21.48 kgs
1768.78 grams
-2.0+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		
AI SILICATES	Tr	Tr	Tr		Dull creamy opaques.
ANATASE			Tr		Golden, blue, brownish-beige, subhedral, moderately worn.
APATITE					
BARITE	Tr	Tr	Tr		Pale yellow, creamy white, orange-toned to colourless, generally tabular, translucent, some more rounded, saccharoidal.
EPIDOTE					
FE OXIDE/HYDROXIDE	65%	Tr	Tr		Red-brown, yellow-brown, dull, pisolitic.
GARNET					
GOLD					
GORCEIXITE	Tr	Tr	Tr		Orange-brown, red-brown, ginger brown, orange, yellow-orange, sub-resinous amorphous opaques.
HAEMATITE					
ILMENITE	Tr	100%	100%		Silvery-black, subhedral, strong metallic lustre, moderately worn; some are more silvery, rounded and pitted.
KYANITE					
LEUCOXENE			Tr		Grey-blue, beige.
MAGNETITE					
MICA					
MN OXIDE	35%	Tr	Tr		Dull greyish-black, nodular, rounded.
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE			Tr		Very rare. Yellowish-brown, blocky, translucent, moderately worn.
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE			Tr		Black-brown, brown, near spherical, very rarely subangular, moderately worn.
XENOTIME					
ZIRCON			Tr		Very rare. Colourless, Fe-stained, broken euhedral grains with fine vesicular inclusions.

COMMENTS: -2.0+1.2 grease table concentrated. No diamonds recovered.

Observed B.G.

by:

Date: Sept. 1998

-1.2+0.8 ¼ obs.

-0.8+0.25 concentrate magnetically separated.

-0.8+0.25 fully obs.

NM

M6/7 -0.8+0.25 fully obs.

M4/5 -0.8+0.25 not obs.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354602

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
29.96 kgs
6345.8 grams
-2.0+0.25 mm
418

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		
AMPHIBOLE					
ANATASE		Tr	Tr		Very rare. Golden, golden-brown, yellow, platy subhedra, moderately worn.
APATITE					
BARITE	3%	Tr	Tr		Colourless to orange-toned, yellow, orange, beige, rounded blocky grains to more tabular, transparent to translucent, often etched, rarely saccharoidal.
CALCITE					
CASSITERITE		Tr			1+0.4, red/black, blocky, quite rounded.
EPIDOTE					
FE OXIDE/HYDROXIDE	90%	Tr	Tr		Red-brown, yellow-brown, brown, dull, pisolitic.
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Very rare. Orange, sub-resinous amorphous opaques.
HAEMATITE					
ILMENITE	Tr	100%	100%		Silvery-black subhedra, bright metallic lustre, moderately worn.
KYANITE					
LEUCOXENE		Tr	Tr		Beige, tan, polished, after ilmenite.
MAGNETITE					
MICA			Tr		1+0.25, brown muscovite flake.
MN OXIDE	5%	Tr	Tr		Grey-black, dull, well rounded opaques.
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE	2%	Tr	Tr		Brown, yellowish-brown, blocky to more rounded, some quite lath-like, translucent to sub-translucent, commonly as more composite grains.
RUTILE			Tr		Very rare. Orange, brownish-red, subhedral, platy, moderately worn.
SULPHIDES					
TOURMALINE		Tr	Tr		Black-brown near spherical grains.
UNKNOWN MINERAL		Tr	Tr		Dull olive green spherical opaques, Al Si K Fe.

COMMENTS: -2.0+1.2 grease table concentrated. No diamonds recovered.

Observed by: B.G.

-1.2+0.8 ½ obs.

Date: Sept. 1998

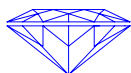
-0.8+0.25 concentrate magnetically separated.

-0.8+0.4 fully obs, -0.4+0.25 1/8 obs.

NM

M6/7 -0.8+0.25 1/32 obs.

M4/5 -0.8+0.25 not obs.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354603

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
28.38 kgs
1671.6 grams
-2.0+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		
AMPHIBOLE					
ANATASE			Tr		Golden yellow, sub-transparent, tabular.
APATITE					
BARITE	Tr	Tr	Tr		White, pale yellow, tabular, blocky to more rounded, frosted, some with etched surfaces.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	Tr	Tr		Brown, red-brown, dull and well rounded.
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Red-brown, orange-brown, opaque, amorphous, moderately worn.
HAEMATITE					
ILMENITE	Tr	100%	100%		Iron black, silvery-black, subhedral, subangular, also tabular, high metallic lustre to more rounded frosted grains.
KYANITE					
LEUCOXENE		Tr			Brown, beige, cream, after ilmenite, subangular to rounded, opaque.
MAGNETITE					
MICA					
MN OXIDE					
PREHNITE					
PYROXENE					
RUTILE			Tr		Orange-red, cherry red, elongate to more rounded, opaque with some metallic lustre.
SULPHIDES					
TOURMALINE			Tr		Brown, black, all well rounded grains.
ZIRCON			Tr		Colourless, orange, honey brown, broken euhedra, vitreous with vesicular inclusions to ovate and frosted, subtranslucent to opaque.
ROCK FRAGMENTS	Tr	Tr	Tr		Ilmenite/quartz/pyroxene composites.

COMMENTS: -2.0+1.2 grease table concentrated. No diamonds recovered.

Observed J.D.

by:

Date: Sept. 1998

-1.2+0.8 fully obs.

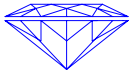
-0.8+0.25 concentrate magnetically separated.

-0.8+0.25 fully obs.

NM

M6/7 -0.8+0.4 fully obs, -0.4+0.25 ¼ obs.

M4/5 -0.8+0.25 not obs.
M1/2/3 Scalp not observed.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354604

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
30.54 kgs
1101.14 grams
-2.0+0.25 mm
418

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		
AMPHIBOLE					
ANATASE			Tr		Very rare. Golden, blue, beige-blue, tabular subhedra, moderately worn.
APATITE					
BARITE	Tr	Tr	Tr		Creamy white, beige, colourless to orange-toned, blocky to more tabular, translucent, rarely saccharoidal.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	Tr	Tr		Yellow-brown, brown, red-brown, dull, pisolitic.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		100%	100%		Silvery-black subhedra, moderately worn.
KYANITE					
LEUCOXENE		Tr	Tr		Beige, blue-grey, brown, tan, polished, after ilmenite.
MAGNETITE					
MICA					
MN OXIDE	Tr	Tr	Tr		Grey-black, dull, well rounded.
MONAZITE			Tr		Orange, beige-brown, red-brown, resinous opaques.
PYROXENE			Tr		Very rare. Brown, translucent, lath-like, moderately worn.
RUTILE			Tr		Silvery-black, cherry red, orange-red sub/anhedra, strong semi-metallic lustre.
SPHENE					
SPINEL					
STAUROLITE			Tr		Very rare. Orange anhedra, translucent, finely striate, tiny black inclusions, moderately worn.
SULPHIDES					
TOURMALINE		Tr	Tr		Black-brown near spherical grains.
UNKNOWN MINERAL			Tr		Dark olive green, near spherical, opaque, Al Si K, Fe.
ZIRCON			Tr		Yellow, orange, colourless, near spherical, very rarely euhedral, broken.

COMMENTS: -2.0+1.2 grease table concentrated. No diamonds recovered.

Observed B.G.

by:

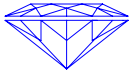
Date: Sept. 1998

-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 fully obs.
M4/5 -0.8+0.25 not obs.
M1/2/3 Scalp not observed.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354605

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
37.10 kgs
656.92 grams
-2.0+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		
AMPHIBOLE					
ANATASE			Tr		Rare. Golden yellow, sub-transparent, tabular.
APATITE					
BARITE	Tr	10%	Tr		White, cream, pale pink, blocky, tabular to quite rounded, opaque, frosted, some deeply etched.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	70%	1%	Tr		Brown, red-brown, grey-black, dull, rounded to broken, earthy.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	84%	100%		Silvery-black, tabular, subangular, smooth semi-metallic to more rounded frosted surface.
KYANITE		Tr			Colourless, tabular grain with good cleavage.
LEUCOXENE			Tr		Beige, brown, grey, after ilmenite, subangular to more rounded grains, porcelain-like.
MAGNETITE					
MICA					
MN OXIDE	30%	5%	Tr		Grey-black, dull, opaque, well rounded.
MONAZITE		Tr	Tr		Orange, pale brown, well rounded with resinous lustre.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Cherry red, elongate, translucent with semi-metallic lustre.
SIDERITE		Tr	Tr		Brown, yellow-orange, orange-brown, translucent to opaque, subhedral, many grains twinned.
SULPHIDES					
TOURMALINE		Tr	Tr		Brown, blue, black, transparent to opaque, well rounded.
ZIRCON		Tr	Tr		Orange, yellow, colourless, red-brown, transparent, vitreous broken euhedra with vesicular inclusions to more ovate, frosted and opaque.

COMMENTS: -2.0+0.8 fully obs.

-0.8+0.25 concentrate magnetically separated.

Observed J.D.

by:

Date: Sept. 1998

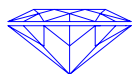
NM

-0.8+0.25 fully obs.

M6/7 -0.8+0.25 fully obs.

M4/5 -0.8+0.4 ¼ obs, -0.4+0.25 1/16 obs.

M1/2/3 Scalp not observed.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354606

ASSESSMENT

Type of sample

Head Weight

Conc Weight -1.2+0.25mm

Size fractions observed

Disc No

NEGATIVE

STREAMSED

30.14 kgs

293.54 grams

-2.0+0.25 mm

418

	%	%	%		
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		Very rare. Bluish-yellow, blue/beige subhedra, translucent, moderately worn.
APATITE					
BARITE	Tr	Tr	Tr		White, creamy white, colourless, orange, blocky to more platy and tabular, trans/subtranslucent, some more rounded and saccharoidal.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	35%	10%		Yellow-brown, red-brown, dull, pisolitic.
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Orange, cream, sub-resinous amorphous opaques.
HAEMATITE					
ILMENITE	Tr	65%	90%		Silvery-black, subhedra, some quite blocky and angular, low Mg bearing, bright metallic lustre; also more rounded frosted and pitted grains.
KYANITE					
LEUCOXENE			Tr		Beige, dull opaques, some more polished, after ilmenite.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PYROXENE					
RUTILE			Tr		Very rare. Cherry red, orange-red, rounded anhedral.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Black-brown, well rounded.
ZIRCON		Tr	Tr		Very rare. Beige, orange, pinkish-beige, near spherical, also as broken euhedral grains with vesicular inclusions.

COMMENTS: -2.0+0.4 fully obs.

Observed B.G.
by:

-0.4+0.25 ¼ obs.

Date: Sept. 1998.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354607

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
28.70 kgs
495.56 grams
-2.0+0.25 mm
418

	%	%	%		
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		Pale grey-blue, bluish-yellow, beige, subhedral, moderately worn.
APATITE					
BARITE	Tr	Tr	Tr		Creamy yellow, creamy white, orange-toned to colourless, blocky to more tabular, rarely transparent, often frosted and etched, trans/subtranslucent, some are more rounded and saccharoidal.
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	5%	Tr		Red-brown, grey-black, yellow-brown, pisolitic.
GARNET					
GOLD					
GORCEIXITE			Tr		Orange, orange-brown, red-brown, yellow, sub-resinous to resinous amorphous opaques.
ILMENITE	Tr	95%	100%		Silvery-black, subhedral, moderately worn.
KYANITE					
LEUCOXENE		Tr	Tr		Blue-grey, beige, porcelain-like to quite dull and rounded.
MAGNETITE					
MICA					
MN OXIDE	Tr	Tr	Tr		Grey-black, dull, rounded.
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
TOURMALINE					
UNKNOWN MINERAL	Tr	Tr	Tr		Very rare. Dark to pale olive green Al Si K Fe.
ZIRCON			Tr		Very rare. Orange, colourless near spherical grains.
ROCK FRAGMENTS	Tr				Very rare. Pyroxene composites.
COMMENTS:	-2.0+1.2 grease table concentrated. No diamonds recovered.				Observed by: B.G.

NM		-1.2+0.8 ¼ observed.	Date: Sept. 1998
		-0.8+0.25 concentrate magnetically separated.	
		-0.8+0.25 fully obs.	
	M6/7	-0.8+0.25 fully obs.	
	M4/5	-0.8+0.25 not obs.	
	M1/2/3	Scalp not observed.	



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354608

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

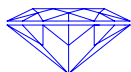
NEGATIVE

STREAMSED
31.80 kgs
969.79 grams
-1.2+0.25 mm
418

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		
AMPHIBOLE					
ANATASE			Tr		Silvery-grey, blocky subhedra with silvery sheen.
APATITE					
BARITE	Tr	Tr	Tr		White, pale peach, pale yellow, tabular, blocky to more rounded, frosted with some pitted or heavily etched.
CALCITE					
CASSITERITE		Tr	Tr		Yellow/black, red/black, translucent, rounded with frosted silvery sheen.
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	90%	Tr	Tr		Brown, red-brown, rounded to more dull earthy angular fragments.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	100%	100%		Silvery black, subangular to more rounded.
KYANITE		Tr	Tr		Colourless, pale blue, tabular elongate crystals with pearly lustre.
LEUCOXENE		Tr	Tr		Brown, beige after ilmenite, subangular to more rounded.
MAGNETITE					
MICA					
MN OXIDE	10%	Tr	Tr		Grey-black, dull well rounded grains.
MONAZITE			Tr		Yellow, orange-brown, translucent, smooth well rounded with resinous lustre.
RUTILE		Tr	Tr		Orange-brown, cherry red, black, tabular to elongate, rounded opaque with semi-metallic lustre.
STAUROLITE					
SULPHIDES			Tr		Dull brassy yellow, rounded, roughly textured.
TOURMALINE			Tr		Brown, black, well rounded.
ZIRCON			Tr		Honey brown, colourless, yellow, pale pink, vitreous broken euhedra, also more rounded to ovate, smooth to frosted.
ROCK FRAGMENTS					
COMMENTS:	-2.0+1.2 not obs.			Observed by:	J.D.

NM		-1.2+0.8 fully obs.	Date: Sept. 1998
		-0.8+0.25 concentrate magnetically separated.	
		-0.8+0.25 fully obs.	
	M6/7	-0.8+0.25 fully obs.	
	M4/5	-0.8+0.25 not obs.	
	M1/2/3	Scalp not observed.	



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354609

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
28.84 kgs
195.86 grams
-2.0+0.20 mm
-

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

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
AMPHIBOLE					
ANATASE			Tr		Ice-blue, silver-grey, translucent tabular subhedra
APATITE					
BARITE	Tr	Tr	Tr		White, colourless, blocky to more rounded
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	95%	45%		Brown, red-brown, tan, dull, rounded, also earthy broken fragments
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	5%	35%		Silvery-black, subhedral, subangular to more rounded
KYANITE					
LEUCOXENE			Tr		Beige, brown, opaque, rounded, porcelain-like
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE		Tr	Tr		Pale brown, pale orange, opaque, well rounded with a resinous lustre
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	20%		Black, brown, blue, well rounded with frosted surface
XENOTIME					
ZIRCON			Tr		Orange, colourless, yellow, translucent to opaque, well rounded, frosted; rare broken euhedra with vesicular inclusions
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 JD
by:
Date: Aug 98



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354610

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
31.94 kgs
622.01 grams
-1.2+0.25 mm
418

	%	%	%		
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. Tabular blue-grey and blue-Yellow subhedra, strong semi-metallic lustre.
APATITE					
BARITE	Tr	Tr	Tr		Several grains, cream/colourless, frosted, blocky, moderately worn.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	Tr		Pisolitic, mustard yellow, red-brown, purple-brown, rounded, polished.
GARNET		Tr			1+0.4, spessartine, subangular, frosted, translucent, pink-orange.
GALENA			Tr		1+0.25, broken quartz grain with a central core of galena, moderately fresh.
GORCEIXITE			Tr		Red-brown, resinous, opaque, amorphous.
HAEMATITE					
ILMENITE	Tr	Tr	100%		Bright silvery-black, tabular subhedra, moderately worn, also rare more worn grains, pitted.
KYANITE					
LEUCOXENE			Tr		Blue-grey, beige, well worn and porcelain-like, some after ilmenite.
MAGNETITE					
MALACHITE			Tr		1+0.25, bright emerald green, translucent, moderately fresh subangular fragment.
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE		Tr	Tr		Khaki-brown, ragged laths, transparent, moderately fresh.
RUTILE			Tr		Silvery-black, cherry red, well worn, pitted.
SPHENE					
TOURMALINE		Tr	Tr		Black-brown, near spherical, reworked, frosted to smooth.

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

ZIRCON			Tr	Rare. Colourless, Fe-stained, near spherical, reworked.
COMMENTS:	-2.0+1.2 not obs.			Observed L.F.
:	-1.2+0.8 concentrate fully observed.			by: Date: Sept. 1998.
	-0.8+0.25 concentrate magnetically separated.			
	-0.8+0.25 fully obs.			
NM				
M6/7	-0.8+0.4 fully obs, -0.4+0.25 ½ obs.			
M4/5	-0.8+0.4 fully obs, -0.4+0.25 1/16 obs.			
M1/2/3	Scalp not observed not observed.			



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354611

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

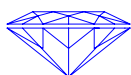
STREAMSED
27.90 kgs
604.68 grams
-1.2+0.25 mm
418

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		
AMPHIBOLE					
ANATASE			Tr		Blue-grey, pale yellow, opaque, roughly textured subhedra.
APATITE					
BARITE	1%	75%	40%		White, colourless, orange, yellow, pale peach, tabular, blocky to rounded, transparent through to opaque, some grains deeply etched or pitted, others frosted.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	99%	10%	10%		Brown, tan, rounded, also dull broken earthy fragments.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	15%	50%		Silvery-black, subangular to more rounded, metallic lustre.
KYANITE					
LEUCOXENE		Tr	Tr		Brown, beige, after ilmenite.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE		Tr	Tr		Greenish-brown, sub-transparent to translucent elongate with surface striations to more blocky jagged edged grains.
RUTILE			Tr		Cherry red, some metallic lustre, rounded.
SPHENE					
SPINEL					
STAUROLITE					

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

SULPHIDES				
TOURMALINE		Tr	Tr	Black-brown, blue, well rounded, some quite frosted.
XENOTIME				
ZIRCON			Tr	Colourless, orange-red, yellow, vitreous.
COMMENTS: -2.0+1.2 not obs, -1.2+0.8 fully obs. Observed J.D. by: Date: Sept. 1998 -0.8+0.25 concentrate magnetically separated. NM -0.8+0.25 fully obs. M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.4 fully obs, -0.4+0.25 ½ obs. M1/2/3 Scalp not observed.				



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354612

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
21.02 kgs
3045.97 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		Very rare. Yellow, golden, tabular subhedra, moderately worn.
APATITE					
BARITE	Tr	Tr	Tr		Colourless to orange-toned, orange, blocky tabular grains, also some more rounded, transparent to translucent, often deeply etched, rarely white, beige, more granular, opaque.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	60%	Tr		Red-brown, yellow-brown, dull, well rounded.
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Very rare. Orange-red, orange-brown, amorphous sub-resinous opaques.
HAEMATITE					
ILMENITE	Tr	40%	100%		Silvery-black subhedra, moderately worn.
KYANITE					
LEUCOXENE		Tr	Tr		Tan, caramel, beige, dull.
MAGNETITE					
MICA					
MN OXIDE	Tr	Tr	Tr		Dull grey-black, nodular.
MONAZITE		Tr	Tr		Very rare. Orange, resinous, opaque, well rounded.
PHOSPHATES					
PREHNITE					
PYROXENE		Tr	Tr		Brown, translucent, lath-like, moderately worn.
RUTILE			Tr		Orange, orange-red.
SULPHIDES					
TOURMALINE		Tr	Tr		Black-brown, near spherical.

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

UNKNOWN MINERALS		Tr	Tr	Olive green spherical opaques, Al Si K Fe.
ZIRCON		Tr	Tr	Very rare. Yellow, beige, colourless, sub/anhedral, rounded to prismatic and included.
COMMENTS: -2.0+1.2 not obs. -1.2+0.8 1/8 obs. -0.8+0.25 concentrate magnetically separated. -0.8+0.4 fully obs, -0.4+0.25 ½ obs. NM M6/7 -0.8+0.4 fully obs, -0.4+0.25 1/8 obs. M4/5 -0.8+0.25 not obs. M1/2/3 Scalp not observed.				Observed B.G. by: Date: Sept. 1998



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354613

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
15.82 kgs
2609.69 grams
-1.2+0.25 mm
418

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		
AMPHIBOLE					
ANATASE			Tr		Rare, golden yellow, blue-yellow, blue-grey, mottled, usually as platy subhedra, moderately worn, translucent.
APATITE					
BARITE	Tr	Tr	Tr		Colourless, white, cream, some Fe-stained orange, blocky, worn, often frosted, translucent.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	30%	Tr		Red-brown, purple-brown, often pisolitic.
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Orange-red, resinous, translucent to opaque, well worn.
HAEMATITE					
ILMENITE		70%	100%		Abundance of silvery-black platy subhedra, moderately fresh to moderately worn.
KYANITE					
LEUCOXENE			Tr		Grey-green, beige, tan, polished, after ilmenite, some grains are more rounded and worn.
MAGNETITE					
MICA					
MN OXIDE	Tr	Tr	Tr		Dull grey-black, nodular, soft, opaque.
MONAZITE					
PHOSPHATES					
PYROXENE			Tr		Khaki-brown, jagged laths, transparent, moderately fresh.
RUTILE			Tr		Silvery-black, frosted, pitted, near spherical.
STAUROLITE			Tr		1+0.25, pale orange-brown, well worn, transparent.
SULPHIDES		Tr	Tr		Pyrite, rare, fresh brassy yellow broken euhedra.

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

TOURMALINE		Tr	Tr	Black-brown, near spherical, reworked, frosted to smooth.
ZIRCON			Tr	Colourless, near spherical reworked grains, smooth and vitreous to quite frosted.
ROCK FRAGMENTS	Tr			Pyroxene composites.
COMMENTS: -2.0+1.2 not observed.				Observed L.F. by: Date: Sept. 1998.
-1.2+0.8 ½ obs.				
-0.8+0.25 concentrate magnetically separated.				
-0.8+0.25 fully obs.				
NM				
M6/7	-0.8+0.4 fully obs, -0.4+0.25 ½ obs.			
M4/5	-0.8+0.25 not obs.			
M1/2/3	Scalp not observed.			



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354614

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
29.40 kgs
509.07 grams
-1.2+0.25 mm
418

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		
AMPHIBOLE					
ANATASE			Tr		Rare, grey, silvery-grey, opaque, well worn, rounded.
APATITE					
BARITE	Tr	Tr	Tr		Numerous cream/white/colourless, some Fe-stained, milky to transparent, moderately fresh, also granular aggregates.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	60%	Tr		Brown, red-brown, pisolitic, dull.
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Smooth, resinous, dull orange-red, opaque.
HAEMATITE					
ILMENITE		40%	100%		Abundance of silvery-black subhedra, moderately worn, some are well worn and rounded, pitted.
KYANITE					
LEUCOXENE			Tr		Beige, cream, grey-blue, many after ilmenite, also several well worn grains.
MAGNETITE					
MICA					
MN OXIDE	Tr	Tr	Tr		Nodular, grey-black, dull, soft.
MONAZITE			Tr		Cream, red-orange, near spherical reworked grains.
PHOSPHATES					
PREHNITE					
PYROXENE			Tr		Khaki brown, moderately fresh ragged laths, transparent.
RUTILE		Tr	Tr		Rare, silvery-black, well worn.
STAUROLITE		Tr	Tr		Orange-brown, well worn.

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

SULPHIDES		Tr		Pyrite, rare, dull, tarnished.
UNKNOWN MINERAL		Tr	Tr	Cu Zn S, yellow, subangular, translucent, semi-metallic lustre.
ZIRCON		Tr	Tr	Colourless, pinkish, broken euhedra, fine vesicular inclusions, also more rare well rounded grains, reworked.
COMMENTS: -2.0+1.2 not obs.				Observed L.F.
-1.2+0.8 fully obs.				by: Date: Sept. 1998
-0.8+0.25 concentrate magnetically separated.				
-0.8+0.4 fully obs, -0.4+0.25 ½ obs.				
NM				
M6/7	-0.8+0.4 fully obs, -0.4+0.25 ½ obs.			
M4/5	-0.8+0.4 not obs.			
M1/2/3	Scalp not observed.			



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354615

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

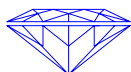
STREAMSED
31.46 kgs
171.50 grams
-2.0+0.20 mm
418

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

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
AMPHIBOLE					
ANATASE		Tr	Tr		Rare, grey-blue, orange, platy subhedra, translucent, worn.
APATITE					
BARITE	Tr	Tr	10%		Colourless, white, blocky, moderately fresh, translucent.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	35%		Red-brown, yellow-brown, dull, earthy.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	25%		Bright, silvery-black, mostly platy moderately worn subhedra, some grains are well rounded, pitted, more worn.
KYANITE					
LEUCOXENE		Tr	Tr		Blue-grey, cream, beige, after ilmenite.
MAGNETITE					
MICA					
MN OXIDE			20%		Dull grey-black, soft, granular.
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Rare. Silvery-black, near spherical reworked grains.
SPHENE					
SPINEL					

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

STAUROLITE				
SULPHIDES				
TOURMALINE			10%	Black-brown, near spherical, reworked, frosted to smooth.
UNKNOWN MINERAL			Tr	Cu Zn S, yellow, mottled, translucent, subangular.
ZIRCON			Tr	Rare, colourless, well worn, near spherical.
ROCK FRAGMENTS				
COMMENTS:	Concentrate fully observed.			Observed by: L.F. Date: Sept. 1998.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354616

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
33.98 kgs
170.84 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	+0.20	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Grey-blue, pale blue, translucent subhedra to rounded, opaque with dull roughly textured surface.
APATITE					
BARITE	5%	40%	35%		White, pale peach, colourless, pale yellow.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	85%	45%	30%		Brown, red-brown, rounded, also dull, earthy, fractured.
GARNET					
GOLD					
GORCEIXITE		Tr			Brown, opaque amorphous grains. Rare.
HAEMATITE					
ILMENITE		5%	30%		Silvery-black, tabular, subangular, grooved, high metallic lustre to more rounded grains, frosted.
KYANITE					
LEUCOXENE		Tr	Tr		Beige, cream, after ilmenite, blocky angular, polished.
MAGNETITE					
MICA					
MN OXIDE	10%	10%	Tr		Grey-black, dull and well rounded.
MONAZITE			Tr		Red-brown, honey brown, opaque, well rounded with resinous lustre.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Black, subhedral, semi-metallic lustre.

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

SPHENE				
SPINEL				
TOURMALINE		Tr	5%	Black, brown, orange, blue, well rounded, some quite frosted.
ZIRCON			Tr	Orange-red, colourless, honey brown, yellow, orange, ovate to near spherical, translucent to opaque, rarely subhedral, quite dull.
COMMENTS:	-2.0+0.8 fully obs.			Observed J.D.
	-0.8+0.25 concentrate magnetically separated.			by: Date: Sept. 1998
	-0.8+0.25 fully obs.			
NM				
M6/7	-0.8+0.25 fully obs.			
M4/5	-0.8+0.25 fully obs.			
M1/2/3	Scalp not observed.			
	-0.25+0.20 fully obs.			



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354617

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

POSS KIMB

STREAMSED
31.70 kgs
1824.99 grams
-2.0+0.25 mm
418

	%	%	%		
KEY MINERALS	+0.8	+0.4	+0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		2+0.25, black, dull, rounded, one is a finely cokey broken octahedra, the other is anhedral, coarsely cokey. (1+0.25 is Poss Kimb (the anhedral grain))
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

	%	%	%		
OTHER MINERALS	+0.8	+0.4	+0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE		Tr	Tr		Blue, deep grey, yellow-beige, yellow, platy subhedra, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE		100%	65%		Yellow-brown, brown, dull to more polished, pisolitic.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	30%		Silvery-black, subhedra, moderately worn; also commonly well rounded, dull and pitted.
KYANITE					
LEUCOXENE			Tr		Grey-blue, beige, grey, grey-green.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE		Tr	Tr		Very rare. Orange, near spherical resinous opaques.
PHOSPHATES					
PREHNITE					

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

PYROXENE			Tr	Very rare. Yellowish-brown to olive green, ragged edged laths.
RUTILE		Tr	Tr	Very rare. Cherry red, silvery-black, rounded sub/anhedra, strong semi-metallic lustre.
SPINEL				
TOURMALINE		Tr	5%	Black-brown, near spherical.
ZIRCON		Tr	Tr	Colourless, orange, beige-pink, red, beige, generally ovate to near spherical, also rarely as broken euhedra with fine vesicular inclusions.
COMMENTS: -2.0+0.8 grease table concentrated. No diamonds recovered. Observed by: B.G. -0.8+0.25 concentrate magnetically separated. Date: Sept. 1998. -0.8+0.25 fully obs. NM M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.25 fully obs. M1/2/3 Scalp not observed.				



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354618

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
17.80 kgs
772.83 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 **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		Ice blue, blue-grey, tabular subhedral grains, translucent to opaque.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	95%		Brown, red-brown, tan, dull, well rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	5%		Silvery-black, matt black to semi-metallic lustre, tabular, subangular, grooved, rounded grains being more frosted.
KYANITE					
LEUCOXENE			Tr		Grey, cream, beige, angular to quite rounded, polished to moderately dull.
MAGNETITE					
MICA					
MN OXIDE		Tr	Tr		Grey-black, dull, well rounded.
MONAZITE			Tr		Orange-brown, opaque, rounded with resinous lustre.
PHOSPHATES					

PREHNITE				
PYROXENE				
RUTILE				
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE	Tr	Tr	Tr	Black, brown, well rounded.
ZIRCON			Tr	Colourless, yellow, subhedra, vitreous to rounded, translucent.
COMMENTS:	-2.0+0.8 fully obs.			Observed J.D.
	-0.8+0.25 concentrate magnetically separated.			by: Date: Sept. 1998
NM	-0.8+0.25 fully obs.			
M6/7	-0.8+0.25 fully obs.			
M4/5	-0.8+0.25 fully obs.			
M1/2/3	Scalp not observed.			



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354619

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
30.88 kgs
7.4 grams
-2.0+0.20 mm
417

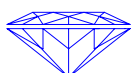
KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

% % %

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	+0.20		
AMPHIBOLE					
ANATASE					
APATITE					
BARITE			Tr		Colourless to greyish, translucent, moderately worn
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	98%	20%		Red-brown, dull, earthy to pisolitic
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	15%		Silvery-black, moderately worn to worn, sometimes platy
KYANITE					
LEUCOXENE		Tr	30%		Beige, cream, most are near spherical reworked grains, dull to polished, opaque, some after ilmenite
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			2%		Red-orange, orange-brown, white/cream, resinous, opaque, near spherical reworked grains
PHOSPHATES					
PREHNITE					

PYROXENE				
RUTILE			Tr	Silvery-black, near spherical, reworked, strong semi-metallic lustre
TOURMALINE	Tr	2%	30%	Black-brown, near spherical, reworked, smooth to finely frosted, translucent
XENOTIME				
ZIRCON		Tr	3%	Colourless, yellow, orange, near spherical reworked grains, rare prismatic broken euhedra
ROCK FRAGMENTS				
COMMENTS: Concentrate fully observed				Observed by: LF Date: Aug 98



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354620

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

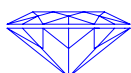
STREAMSED
20.08 kgs
23.0 grams
-2.0+0.25 mm
417

KEY MINERALS	% +0.8	% +0.4	% +0.25	BRIEF DESCRIPTION
DIAMOND				
PYROPE				
CHROMITE/CR SPINEL		Tr	Tr	1+0.4, 4+0.25, black, dull, anhedral, finely pitted and cokey, granular
CHROME DIOPSIDE				
PICROILMENITE				
PHLOGOPITE				
OTHER				

OTHER MINERALS	% +0.8	% +0.4	% +0.25	BRIEF DESCRIPTION
AMPHIBOLE				
ANATASE			Tr	Ice-blue, silver-grey, golden yellow, translucent, tabular broken euhedral grains to rare rounded and opaque grains
APATITE				
BARITE		Tr	Tr	Colourless, white, blocky to more rounded, frosted with etching, also some are saccharoidal in appearance
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	75%	20%	Brown, tan, brick-red, dull, well rounded
GARNET				
GOLD				
GORCEIXITE		Tr	Tr	Red-brown, brown, opaque amorphous grains with a resinous lustre
HAEMATITE				
ILMENITE		10%	62%	Silvery-black, tabular, subangular with a high metallic lustre to more rounded and frosted
KYANITE				
LEUCOXENE			Tr	Dark brown, grey, cream, beige, angular, opaque, some porcelain-like, after ilmenite
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE		Tr		Cream, peach, orange, opaque, well rounded with a resinous lustre: also yellow, translucent, subhedral
PHOSPHATES		Tr	Tr	Pale peach, orange, brown, cream

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

PREHNITE				
PYROXENE			Tr	Pale brown, subtranslucent, elongate, very finely striate
RUTILE		Tr	Tr	Cherry-red, black, translucent with semi-metallic lustre
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE	Tr	15%	15%	Brown, black, green, blue, well rounded, moderately worn
XENOTIME				
ZIRCON		Tr	3%	Honey-brown, colourless, yellow, transparent to opaque, well rounded with frosted surfaces
ROCK FRAGMENTS				
COMMENTS:	Concentrate fully observed			Observed JD by: Date: Aug 98



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354621

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
30.72 kgs
10.4 grams
-2.0+0.25 mm
417

	%	%	%		
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		Pale grey-blue, greyish-white, rarely yellow, tabular subhedra, moderately fresh, also more worn subrounded grains, all are translucent
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Rare, colourless, mottled blue, well worn, vitreous, transparent, well worn
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	65%	20%		Red-brown, yellow-brown, dull to smooth, polished, some pisolitic
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Red-brown, resinous, opaque, smooth
HAEMATITE					
ILMENITE		20%	40%		Silvery-black, bright subhedra, moderately fresh to moderately worn
KYANITE					
LEUCOXENE		Tr	5%		Beige, cream, mostly after ilmenite, also well rounded reworked grains
MAGNETITE					
MICA					
MN OXIDE					

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

MONAZITE		Tr	Tr	Orange, red-brown, resinous, well rounded, opaque, smooth
PHOSPHATES				
RUTILE			Tr	Dark cherry-red to silvery-black, well worn reworked grains
SIDERITE			Tr	Palest yellow, translucent, short fibrous appearance, moderately fresh
STAUROLITE			Tr	Orange-brown, small black inclusions, well worn
SULPHIDES				
TOURMALINE	Tr	15%	40%	Black-brown, near spherical reworked grains, translucent, smooth to frosted
XENOTIME				
ZIRCON		Tr	3%	Colourless, orange, yellow, ovate to near spherical, reworked, smooth to frosted
ROCK FRAGMENTS				
COMMENTS: Concentrate fully observed				Observed by: LF Date: Aug 98



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354622

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
31.14 kgs
68.17 grams
-2.0+0.25 mm
417

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL		Tr	Tr		1+0.4, 7+0.25, anhedral, cokey, matt brownish-black sheen, one grain is near spherical, another is a broken cokey euhedra.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Mostly pale grey-blue, also pale yellow, often tabular, subhedral, moderately worn to worn.
APATITE					
BARITE		Tr	Tr		Colourless, milky, translucent, moderately worn to worn.
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Pale blue, vitreous, worn, transparent.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	38%		Yellow-brown, brown, red-brown, dull, the larger grains are pisolitic.
GARNET					
GOLD					
GORCEIXITE			Tr		Pale blue, vitreous, worn, transparent.
HAEMATITE	Tr	Tr	Tr		Silver-black aggregates, reddish tints, rare.
ILMENITE	Tr	Tr	30%		Silvery-black subhedra, moderately worn to worn, some grains well worn, rounded, pitted.
KYANITE					
LEUCOXENE		Tr	2%		After ilmenite, blue-grey/beige/cream, moderately worn to well worn.
MAGNETITE					
MICA					

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

MONAZITE		Tr	Tr	Resinous, red-orange/cream, near spherical, reworked.
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE			Tr	Silvery-black, cherry red, well worn.
STAUROLITE			Tr	Very rare, orange-brown, translucent, small black inclusions, well worn.
SULPHIDES				
TOURMALINE	Tr	Tr	30%	Black-brown, near spherical, reworked, smooth to frosted.
ZIRCON			Tr	Colourless, yellow, orange, Fe-stained, ovate to near spherical; also less common broken subhedra, moderately worn.
COMMENTS: Concentrate fully observed.				Observed by: L.F. Date: August 1998.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354623

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
30.90 kgs
34.52 grams
-2.0+0.25 mm
418

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

OTHER MINERALS	%	%	%	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25	
AMPHIBOLE				
ANATASE		Tr	Tr	Beige, bluish-beige, yellow/beige, yellow/blue, platy to tabular subhedra, translucent, moderately worn.
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	95%	40%	Yellow-brown, red-brown, brown, dull to more polished, rounded.
GARNET				
GOLD				
GORCEIXITE	Tr	Tr	Tr	Creamy brown, red-brown, cream, orange-yellow, dull to sub-resinous rounded opaques.
HAEMATITE				
ILMENITE		3%	30%	Silvery-black subhedra, bright metallic lustre, moderately worn.
KYANITE				
LEUCOXENE		Tr	15%	Dark-brown, tan, beige, grey-green, dull and well rounded to quite polished, after ilmenite.
MAGNETITE				
MICA				

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

MONAZITE		Tr	Tr	Orange, brown, orange-brown, resinous near spherical opaques.
PHOSPHATES				
PREHNITE				
PYROXENE		Tr	Tr	Very rare. Brown composite blocky subtranslucent grains.
RUTILE		Tr	Tr	Very rare. Cherry red, silvery-black, rounded to well rounded anhedral.
SIDERITE?		Tr	Tr	Very rare. Beige to yellow-beige blocky tabular grains, translucent, frosted, moderately worn.
TOURMALINE	Tr	2%	15%	Black-brown, rarely coloured, near spherical.
ZIRCON			Tr	Pearly beige, orange, yellow, orange-brown, colourless, near spherical to more ovate grains, transparent to translucent.
COMMENTS: -2.0+0.4 fully obs. -0.4+0.25 ½ obs. Observed by: B.G. Date: Sept. 1998.				



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354624

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
28.78 kgs
49.64 grams
-2.0+0.20 mm
418

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

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
Al SILICATES	Tr	Tr	Tr		Dull cream, creamy brown rounded opaques.
ANATASE		Tr	Tr		Creamy beige, grey-blue, yellow, grey, beige, blue/beige, sub/anhedral, translucent, moderately worn.
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE			Tr		1+0.25, yellow, anhedral, subtranslucent, moderately worn.
FE OXIDE/HYDROXIDE	100%	100%	90%		Red-brown, yellow-brown, dull pisolitic to sub-rounded.
GARNET					
GOLD					
GORCEIXITE	Tr	Tr	Tr		Mustard yellow, beige, brick red, tan, cream, amorphous dull to more resinous opaques.
HAEMATITE					
ILMENITE	Tr	Tr	Tr		Silvery-black subhedra, bright metallic lustre.
KYANITE					
LEUCOXENE		Tr	3%		Grey-blue, creamy beige, tan, dull rounded opaques to more polished subhedra after ilmenite.
MAGNETITE					
MICA					
MN OXIDE		Tr	Tr		Grey dull opaques.

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

MONAZITE			Tr	Yellow-orange, creamy orange resinous near spherical opaques.
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE			Tr	Very rare. Silvery-black, well rounded anhedral.
STAUROLITE				
TOURMALINE	Tr	Tr	7%	Black-brown, rarely coloured, near spherical, very rare worn prismatic grains.
UNKNOWN MINERAL		Tr	Tr	Dull emerald green near spherical opaques, SEM indicates Al Si K Fe.
ZIRCON			Tr	Yellow, palest pink, colourless, ovate to near spherical, very rarely broken euhedral transparent grains.
COMMENTS: Concentrate fully observed.				Observed by: B.G. Date: Sept. 1998



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354625

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
28.58 kgs
448.57 grams
-2.0+0.20 mm
418

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
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	+0.20		
AMPHIBOLE					
ANATASE			Tr		Mostly blue-grey, also grey, tabular subhedra, broken, moderately worn, strong greasy lustre.
APATITE					
BARITE	Tr	Tr	Tr		Mostly colourless, frosted fragments, translucent, moderately fresh.
CALCITE					
CASSITERITE			Tr		Orange-brown, well worn, transparent.
CORUNDUM			Tr		Rare, sky blue, vitreous, anhedral, transparent.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	78%		Brown, red-brown, some are yellow-brown, often dull, earthy, the larger grains are pisolitic.
GARNET					
GOLD					
GORCEIXITE		Tr			Beige, red-brown, resinous, amorphous, smooth worn grains.
HAEMATITE					
ILMENITE		Tr	15%		Silvery-black, mostly worn to moderately worn subhedra.
KYANITE					
LEUCOXENE		Tr	5%		Beige, cream, sometimes grey, mostly smooth and worn.
MAGNETITE					
MICA					

MN OXIDE				
MONAZITE			Tr	Resinous, orange, red-orange, cream, smooth, reworked.
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE		Tr	Tr	Silvery-black, dark cherry red, well worn reworked grains.
SULPHIDES				
TOURMALINE		Tr	Tr	Black-brown, near spherical.
ZIRCON			2%	Colourless, mostly near spherical grains, rare worn broken euhedra.
COMMENTS:	-2.0+0.8 concentrate fully observed.			Observed L.F.
	-0.8+0.25 concentrate magnetically separated.			by: Date: Sept. 1998
	-0.8+0.25 fully obs, -0.25+0.20 fully obs.			
NM				
M6/7	-0.8+0.4 fully obs, -0.4+0.25 1/8 obs, -0.25+0.20 (MI separated) ¼ obs.			
M4/5	-0.8+0.4 fully obs, -0.4+0.25 ½ obs, -0.25+0.20 fully obs.			
M1/2/3	Scalp not observed.			
	Additional -0.25+0.20 not magnetically separated: ½ obs.			



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354626

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
33.54 kgs
9.1 grams
-2.0+0.20 mm
-

KEY MINERALS	%	%	%	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20	
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	%	%	%	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20	
AMPHIBOLE				
ANATASE			Tr	Rare, silvery-grey, golden yellow, opaque, well rounded, roughly textured surfaces.
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	97%	70%	Brick-red, brown, tan, dull, earthy, rounded
GARNET				
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE		2%	10%	Silvery-black, subhedral, tabular, subangular to more rounded, high metallic lustre to a more frosted surface
KYANITE				
LEUCOXENE		Tr	15%	Brown, beige, cream, sharp angular to more rounded, porcelain-like, after ilmenite
MAGNETITE				
MICA				

MN OXIDE				
MONAZITE				
PHOSPHATES			Tr	Orange, pale peach, opaque, smooth, well rounded with a resinous lustre
PREHNITE				
PYROXENE				
RUTILE			Tr	Cherry-red, rounded, opaque with a semi-metallic lustre
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE		1%	5%	Black, brown, green, transparent to opaque, well rounded
XENOTIME				
ZIRCON		Tr	Tr	Colourless, orange-brown, yellow, broken euhedral, vitreous with vesicular inclusions; also rounded grains, translucent to opaque, frosted
ROCK FRAGMENTS				
COMMENTS:	Concentrate fully observed			Observed by: JD Date: Aug 98



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File: 98-041.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354627

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
21.32 kgs
4.6 grams
-2.0+0.20 mm
417

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		Pale grey, grey-blue, well worn, semi-opaque
APATITE					
BARITE		Tr	Tr		Colourless, Fe stained, worn, translucent, dull
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	70%	20%		Red-brown, dull, earthy
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		30%	15%		Silvery-black, sharp subhedra, many partly leucoxenised
KYANITE					
LEUCOXENE		Tr	55%		After ilmenite, sharp subhedra, some well worn; beige, cream, tan, grey
MAGNETITE					
MICA					

MN OXIDE				
MONAZITE		Tr	Tr	Resinous, red-orange, well worn, smooth
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE		Tr	Tr	Silvery-black, near spherical, well worn, opaque
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE		Tr	10%	Black-brown, near spherical, reworked, smooth to frosted
XENOTIME				
ZIRCON			Tr	Rare, colourless, Fe stained, some milky, well worn, rounded, smooth
ROCK FRAGMENTS				
COMMENTS:	Concentrate fully observed			Observed LF by: Date: Aug 98



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354628

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

PROB KIMB

STREAMSED
26.50 kgs
1.1 grams
-2.0+0.20 mm
417/418

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.25, black near spherical grain, smooth surface, slight sheen
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	+0.20		
AMPHIBOLE		Tr	Tr		Very rare, pale grey-green, bottle green, fibrous laths, moderately worn
ANATASE			Tr		Grey, blue, sub/anhedra, subtranslucent, moderately worn to worn
APATITE					
BARITE	Tr	Tr	Tr		Very rare, dull, creamy beige, sugary opaques, subangular to rounded
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	57%	25%		Red-brown, orange-brown, dull, earthy
GARNET					
GOLD					
GORCEIXITE			Tr		Brown, reddish-cream, cream, creamy yellow, rounded opaques
HAEMATITE					
ILMENITE		5%	10%		Silvery-black subhedra, moderately fresh to moderately worn
KYANITE					
LEUCOXENE		3%	20%		Beige, grey, cream, tan, dull to more polished
MAGNETITE					

MICA			Tr	1+0.25, biotite, dark brown, flaky
MN OXIDE				
MONAZITE			Tr	Pale peach pink, beige-brown, cream, creamy orange, resinous well rounded opaques
PHOSPHATES				
PREHNITE				
SPINEL				
STAUROLITE			Tr	Dull orange-brown, small black inclusions, moderately worn
SULPHIDES				
TOURMALINE		35%	45%	Green, black-brown, rarely coloured, near spherical
XENOTIME				
ZIRCON		Tr	Tr	Beige, yellow, brownish-orange, colourless, translucent, near spherical, very rare broken euhedra, transparent
COMMENTS: Concentrate fully observed				Observed BG by: Date: Aug 98



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354629

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
31.66 kgs
17.86 grams
-2.0+0.20 mm
-

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
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	+0.20		
AMPHIBOLE					
ANATASE		Tr	Tr		Rare, grey-blue, tabular worn subhedra, translucent
APATITE					
BARITE			2%		Dull, colourless to whitish, worn, translucent
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	53%		Red-brown, dull, earthy, rarely polished
GARNET					
GOLD					
GORCEIXITE	Tr	Tr	Tr		Red-brown, well worn, resinous, opaque
HAEMATITE					
ILMENITE		Tr	25%		Bright silvery-black subhedra, moderately worn; also rare more worn grains, pitted
KYANITE					
LEUCOXENE	Tr	Tr	10%		Beige/cream/grey, worn, dull to polished, opaque, some after ilmenite
MAGNETITE					
MICA					

MN OXIDE				
MONAZITE			Tr	Red-orange, well rounded, reworked, resinous, opaque
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE			Tr	Silvery-black, near spherical to ovate, well worn, translucent, strong semi-metallic lustre, pitted
SPHENE				
TOURMALINE		Tr	10%	Black-brown, near spherical, smooth to frosted, worn
XENOTIME				
ZIRCON			Tr	Colourless, often Fe stained, ovate to near spherical; also more rare worn broken subhedra, similarly coloured
ROCK FRAGMENTS				
COMMENTS:	-2.0+0.25 fully obs.			Observed LF
	-0.25+0.20 concentrate MI separated and fully obs.			by: Date: Aug 98



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354630

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
32.90 kgs
193.9 grams
-2.0+0.20 mm
417

	%	%	%		
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, orange, beige, orange-yellow, grey-blue, tabular to blocky subhedra, often as aggregates, also anhedral, well rounded
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	95%	85%		Yellow-brown, red-brown, brown, pisolitic to subrounded, often quite earthy
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Cream, yellow, red-brown, resinous, amorphous opaques, rarely translucent
HAEMATITE					
ILMENITE		5%	14%		Silvery-black subhedra, bright metallic lustre
KYANITE					

LEUCOXENE		Tr	1%	Cream, creamy-beige, grey-brown, tan, generally well rounded, rarely polished, after ilmenite
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE			Tr	Orange, cream, near spherical opaques
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE		Tr	Tr	Very rare, silvery-grey, well rounded anheda
SPHENE				
TOURMALINE	Tr	Tr	Tr	Black brown, near spherical, translucent grains
UNKNOWN MINERAL	Tr		Tr	Dull green rounded opaques, SEM indicates Al Si K Fe
ZIRCON		Tr	Tr	Very rare, orange-red, colourless, generally ovate
ROCK FRAGMENTS				
COMMENTS: -2.0+0.8 fully obs -0.8+0.25 concentrate magnetically separated -0.8+0.25 fully obs -0.8+0.4 fully obs, -0.4+0.25 ¼ obs -0.8+0.25 fully obs Scalp not observed -0.25+0.20 concentrate magnetically separated & fully obs.				
				Observed by: BG Date: Aug 98
NM M6/7 M4/5 M1/2/3				



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354631

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

POSS KIMB

STREAMSED
31.50 kgs
23.43 grams
-2.0+0.25 mm
417

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.25, brownish black, cokey, granular fracture, subrounded to rounded
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		Golden yellow, silver-grey, translucent to opaque, quite rounded, smooth to granular aggregates
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	85%	45%		Brown, red-brown, tan, well rounded to dull, blocky, earthy
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Red-brown, opaque, amorphous grains, well worn
HAEMATITE					

ILMENITE		10%	40%	Silvery-black, subhedral, subangular, tabular with a high metallic lustre; also more rounded to subangular grains after ilmenite
KYANITE				
LEUCOXENE				
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE		Tr	Tr	Brown, pale peach, orange, opaque, well rounded with a resinous lustre
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE				
SPHENE				
TOURMALINE	Tr	5%	15%	Black-brown, pale orange, sub-transparent to opaque, smooth, well rounded to quite frosted
ZIRCON		Tr	Tr	Yellow, pale orange, red-brown, colourless, pale pink, transparent to opaque, ovate frosted grains to rounded subhedra
ROCK FRAGMENTS				
COMMENTS: Concentrate fully observed				Observed by: JD Date: Aug 98



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354632

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
18.28 kgs
1971.37 grams
-0.8+0.25 mm
423

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL		Tr	Tr		2+0.4 (in a 1/5 split), 1+0.25 (in a 1/4 split) greyish-black to brownish, finely cokey, friable, granular cores, well rounded subhedra.
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 1/2 split) is 2 grains in a 1/2 split of the +0.25mm fraction

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE			Tr		Very rare. Blue, beige/blue tabular subhedra, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE		100%	100%		Yellow-brown, red-brown, generally pisolitic, dull, some are more earthy.
GARNET			Tr		Very rare. Almandine, pale pink rounded anhedra, moderately worn.
GOLD					

GORCEIXITE			Tr	Very rare. Orange, grey-beige amorphous opaques.
HAEMATITE				
ILMENITE		Tr	Tr	Rare. Silvery-black subhedra, moderately worn.
KYANITE				
LEUCOXENE			Tr	Very rare. Beige, after ilmenite.
MAGNETITE				
MICA				
MN OXIDE		Tr	Tr	Dull grey-black nodules.
MONAZITE				
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE			Tr	Very rare. Cherry red well rounded anhedral.
SIDERITE		Tr	Tr	Rare. Beige, spherical, subtranslucent.
SULPHIDES				
TOURMALINE		Tr	Tr	Black-brown near spherical grains.
XENOTIME				
ZIRCON			Tr	Very rare. Colourless subhedra, moderately worn.
COMMENTS:	-2.0+0.8 not obs.			Observed by: B.G.
	-0.8+0.25 concentrate magnetically separated.			Date: Oct. 1998
	-0.8+0.25 fully obs.			
NM				
M6/7	-0.8+0.4 1/5 obs, -0.4+0.25 ¼ obs.			
M4/5	-0.8+0.25 fully obs.			
M1/2/3	Scalp not observed.			

HEAVY MINERAL ANALYSIS SHEET



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SAMPLE NO

354633

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
21.78 kgs
28.07 grams
-2.0+0.25 mm
417

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.25, near spherical, granular, slightly cokey surface
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE			Tr		Rare, grey-blue, well worn, opaque to translucent
APATITE					
BARITE			Tr		Colourless/white, worn, translucent
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	93%		Dull, earthy, red-brown, some are yellow-brown
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE	Tr				Rare, finely crystalline aggregates, silvery-grey
ILMENITE		Tr	Tr		Silvery-black, bright, moderately fresh subhedra
KYANITE					
LEUCOXENE					

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

MAGNETITE				
MICA				
MN OXIDE				
MONAZITE			Tr	Near spherical, resinous, cream/reddish, opaque
PHOSPHATES				
PREHNITE				
PYROXENE			Tr	Rare, moderately fresh, khaki-brown, jagged laths
RUTILE		Tr	Tr	Silvery-black, dark cherry red, well worn reworked grains
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE		Tr	2%	Black-brown, near spherical, smooth to frosted
XENOTIME				
ZIRCON			Tr	Well worn, near spherical, colourless, often Fe stained
ROCK FRAGMENTS				
COMMENTS: Concentrate fully observed				Observed LF by: Date: Aug 98



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354634

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
32.76 kgs
10.55 grams
-2.0+0.20 mm
417

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

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
AMPHIBOLE					
ANATASE		Tr	Tr		Greyish-blue, grey, beige, moderately worn to well worn sub/anhedra, platy to well rounded, translucent to opaque
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	90%		Red-brown, yellow-brown, orange-brown, dull, fragmented to well rounded, earthy, coated
GARNET					
GOLD					

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

GORCEIXITE	Tr	Tr	Tr	Grey-brown, creamy-red, cream, white, beige, orange-brown, creamy-pink, amorphous opaques
HAEMATITE				
ILMENITE		Tr	Tr	Silvery-black subhedra, moderately worn
KYANITE				
LEUCOXENE		Tr	10%	Greyish-beige, grey, cream, beige, dull well rounded opaques
MAGNETITE				
MICA			Tr	Very rare. Brown, platy.
MN OXIDE				
MONAZITE		Tr	Tr	Yellow, orange, creamy-brown, creamy-peach, grey, well rounded resinous opaques, some dull and frosted
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE			Tr	Very rare, silvery-grey, orange, well rounded, sub/anhedra
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES			Tr	Very rare, pyrite. Dull tarnished brassy aggregates
TOURMALINE		Tr	Tr	Black-brown, rare coloured grains, near spherical
XENOTIME				
ZIRCON		Tr	Tr	Beige, colourless, orange, near spherical, translucent, very rare as broken transparent euhedra
ROCK FRAGMENTS				
COMMENTS: Concentrate fully observed				Observed by: BG August 1998



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HEAVY MINERAL ANALYSIS SHEET (Pre-probe)

SAMPLE NO

354635

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

POSITIVE

STREAMSED
36.16 kgs
10.1 grams
-2.0+0.20 mm
417

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
DIAMOND	Tr				1+0.8mm (1.35mm x 1.05mm x 0.8mm), colourless rhombic dodecahedron, highly vitreous, free of inclusions
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	+0.20		
AL SILICATES			Tr		Very rare, colourless, subangular, transparent, moderately fresh
ANATASE			Tr		Grey-blue, pale blue, pale yellow, golden yellow, moderately worn sub/anhedra
APATITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	70%		Red-brown, orange-brown, brown, yellow-brown, dull, well rounded to quite earthy fragments
GARNET					
GOLD					
GORCEIXITE	Tr	Tr	Tr		Red-brown, creamy-brown, creamy-pink, orange, dull to more resinous amorphous opaques

HAEMATITE				
ILMENITE		Tr	5%	Silvery-black subhedra, moderately fresh to moderately worn
KYANITE				
LEUCOXENE		Tr	10%	Beige, creamy beige, grey, dull to more polished, generally rounded opaques
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE				
PHOSPHATES				
PREHNITE				
PYROXENE			Tr	Very rare, Khaki-green, lath-like, finely striate, moderately fresh to moderately worn
RUTILE		Tr	Tr	Silvery-grey, cherry red, rounded anhedral grains
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE		Tr	15%	Black-brown, rarely coloured, near spherical, rarely subangular, more fresh
UNKNOWN MINERAL		Tr	Tr	Very rare, olive green, dull, spherical opaques, SEM indicates Al Si K Fe
ZIRCON		Tr	Tr	Orange-brown, colourless, pink, orange, near spherical grains, frosted, rarely as broken grains
ROCK FRAGMENTS				
COMMENTS:	Concentrate fully observed			Observed by: BG August 1998



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354636

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
31.02 kgs
121.46 grams
-2.0+0.25 mm
417

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
AL SILICATES			Tr		Very rare, colourless, tabular, transparent, moderately worn
ANATASE			Tr		Very rare, pale grey, tabular, opaque, moderately worn
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	98%		Red-brown, yellow-brown, subrounded, dull to more polished, subrounded to more fragmented and earthy
GARNET					
GOLD					

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

GORCEIXITE	Tr	Tr	Tr	Orange, grey, creamy orange, grey, beige, dull to sub-resinous amorphous opaques
HAEMATITE				
ILMENITE		Tr	Tr	Silvery-black subhedra, moderately worn
KYANITE				
LEUCOXENE		Tr	Tr	Greyish-brown, brown, dull to more polished rounded opaques
MAGNETITE				
MICA			Tr	1+0.25, colourless muscovite, flaky
MN OXIDE				
MONAZITE		Tr	Tr	Orange, cream, resinous well rounded opaques
PHOSPHATES				
PREHNITE				
PYROXENE			Tr	Very rare, brown, translucent, lath-like, moderately worn
RUTILE				
SPHENE				
SPINEL				
STAUROLITE			Tr	Very rare, dull orange-brown, anhedral, moderately worn
SULPHIDES				
TOURMALINE		Tr	2%	Black-brown, near spherical grains
XENOTIME				
ZIRCON		Tr	Tr	Orange, red-orange, colourless, pale pink, translucent, near spherical to subhedral, moderately worn
ROCK FRAGMENTS				
COMMENTS: Concentrate fully observed				Observed by: BG AUG 98



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354637

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
28.84 kgs
3.99 grams
-2.0+0.25 mm
417

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	Tr		Pale blue, grey-blue, yellow-orange, worn subhedra, translucent.
APATITE					
BARITE					
CALCITE					
CASSITERITE			Tr		Rare, vivid yellow, near spherical, well worn, transparent.
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	95%	55%		Grains are "phosphate-like" in appearance, dull to resinous, red-brown, cream, worn.
GARNET					

GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE		Tr	10%	Silvery-black subhedra, moderately worn to worn, some partly leucoxenised.
KYANITE				
LEUCOXENE		Tr	15%	Cream, beige, mostly worn, rounded.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE			Tr	Red-orange, cream, tan, polished resinous grains, well worn.
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE				
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE		5%	20%	Black-brown, near spherical, frosted to smooth.
ZIRCON			Tr	Colourless, Fe-stained, well worn, rounded to ovate, rare more fresh broken euhedra.
ROCK FRAGMENTS				
COMMENTS: Concentrate fully observed.				Observed L.F. by: Date: Sept. 1998.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354638

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
18.10 kgs
509.82 grams
-2.0+0.25 mm
423

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	15%	50%	50%		Cream coloured, ovate to quite spherical, finely granular, opaque, worn; rare colourless/beige grains.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					

FE OXIDE/HYDROXIDE	85%	35%	25%	Red-brown, yellow-brown, black, smooth and polished to quite dull, rounded to angular.
GARNET				
GOLD				
GORCEIXITE			Tr	Red-brown, resinous, amorphous, opaque, worn.
HAEMATITE				
ILMENITE	Tr	5%	25%	Bright silvery-black grains, subhedral to well rounded, many are frosted and pitted.
KYANITE				
LEUCOXENE			Tr	
MAGNETITE				
MICA				
MN OXIDE		10%	Tr	Dull, dark grey, irregular, soft, many are nodular.
MONAZITE			Tr	Pale creamy orange, ovate, resinous, opaque.
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE				
SPHENE				
SPINEL				
STAUROLITE				
TOURMALINE		Tr	Tr	Black-brown, near spherical to ovate grains, frosted to smooth.
ZIRCON			Tr	Rare. Colourless, yellow/orange Fe-stained, near spherical to ovate, reworked.
COMMENTS:				Observed L.F. by: Date: Sept. 1998
-2.0+0.8 fully obs.				
-0.8+0.25 concentrate magnetically separated.				
-0.8+0.4 fully obs, -0.4+0.25 ½ obs.				
NM				
M6/7	-0.8+0.4 fully obs, -0.4+0.25 ¼ obs.			
M4/5	-0.8+0.25 fully obs.			
M1/2/3	Scalp not observed.			



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354639

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
35.98 kgs
3.05 grams
-2.0+0.20 mm
418

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.25 black, 1+0.20, dull, subhedral near spherical grains, finely pitted.
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	+0.20		
AMPHIBOLE					
ANATASE			Tr		Very rare. Golden, grey, translucent sub/anhedra grains, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE			Tr		Very rare. Bright orange-red rounded anhedra.

CORUNDUM			Tr	1+0.25, blue/colourless subangular transparent grain, moderately worn.
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	30%	5%	Red-brown, yellow-brown, dull, rounded, often more earthy.
GARNET				
GOLD				
GORCEIXITE	Tr	Tr	Tr	Creamy brown, brown, creamy yellow, creamy red, beige, often mottled sub-resinous amorphous opaques.
HAEMATITE				
ILMENITE		15%	25%	Silvery-black subhedra, moderately worn.
KYANITE				
LEUCOXENE		5%	10%	Grey, beige, creamy beige dull well rounded opaques.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE			Tr	Orange-brown, creamy peach, white, orange, resinous near spherical opaques.
PYROXENE			Tr	Very rare. Palest greenish-beige laths, moderately worn.
RUTILE		Tr	Tr	Very rare. Silvery-black, cherry red, well rounded anhedral with a strong semi-metallic lustre.
STAUROLITE			Tr	Very rare. Orange-brown, translucent anhedral, moderately worn.
TOURMALINE		45%	45%	Black-brown, rarely coloured near spherical grains.
ZIRCON		5%	15%	Orange, colourless, black, pearly beige, palest pink, near spherical, transparent to translucent; also rarely as broken euhedra with vesicular inclusions.
ROCK FRAGMENTS	Tr			Very rare. Pyroxene composites.
COMMENTS: -2.0+0.25 fully obs. -0.25+0.20 conc MI separated and fully obs.				Observed by: B.G. Date: Sept. 1998.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354640

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
35.10 kgs
11.96 grams
-2.0+0.25 mm
418

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	Tr		Blue, beige, yellow tabular subhedra, translucent, moderately worn.
ANDALUSITE			Tr		Pale pink, colourless blocky anhedral, transparent to translucent, moderately worn.
BARITE					
CALCITE					

CASSITERITE				
CORUNDUM			Tr	1+0.25, palest blue-tinged, tabular, transparent, moderately worn.
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	100%	90%	Yellow-brown, orange-brown, grey-black, dull, rounded.
GARNET				
GOLD				
GORCEIXITE	Tr	Tr	Tr	Orange, cream, grey, red-brown, sub-resinous amorphous opaques, often mottled.
HAEMATITE				
ILMENITE		Tr	Tr	Silvery-black, subhedra, moderately worn, some are dull, frosted, rounded.
KYANITE				
LEUCOXENE		Tr	Tr	Cream, beige, grey, tan, rounded, dull to more polished and subangular.
MAGNETITE				
MN OXIDE	Tr	Tr	Tr	Dull grey opaques, soft.
MONAZITE			Tr	Orange, cream, beige, brown, resinous, well rounded, opaques.
PYROXENE			Tr	1+0.25, pale brownish-yellow, rounded, lath-like moderately worn.
RUTILE		Tr	Tr	Very rare. Silvery-black, cherry red, rounded, anhedral, strong semi-metallic lustre.
STAUROLITE			Tr	Very rare. Orange anhedral grains, transparent to translucent, moderately worn.
TOURMALINE		Tr	10%	Black-brown, coloured, near spherical.
ZIRCON		Tr	Tr	Orange, yellow, colourless, milky pink, pale pinkish-beige, ovate to near spherical, very rarely as broken euhedral transparent grains.
COMMENTS: Concentrate fully observed.				Observed by: B.G. Date: Sept. 1998.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354641

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
35.16 kgs
665.41 grams
-2.0+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		Grey-blue, golden yellow, translucent to opaque.
APATITE					
BARITE	Tr	Tr	Tr		Pale orange, white, cream, translucent to opaque, tabular, blocky to more rounded, some grains etched, heavily frosted.
CALCITE					

CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	20%	5%	Brown, red-brown, dull, rounded, earthy, angular.
GARNET			Tr	Almandine, pale pink, transparent, angular.
GOLD				
GORCEIXITE		Tr	Tr	Orange-brown, opaque amorphous grains.
HAEMATITE				
ILMENITE	Tr	80%	95%	Silvery-black, blocky, subangular, tabular, grooved with high metallic lustre to more rounded and frosted, some partly leucogenised.
KYANITE				
LEUCOXENE		Tr	Tr	Beige, brown, after ilmenite, rounded, angular, highly polished.
MAGNETITE				
MICA				
MN OXIDE	Tr	Tr	Tr	Grey-black, opaque, dull, well rounded.
MONAZITE			Tr	Caramel cream, ovate with resinous lustre.
PHOSPHATES				
PREHNITE				
PYROXENE		Tr	Tr	Pale brown, translucent with surface striations, blocky jagged grains.
RUTILE				
TOURMALINE		Tr	Tr	Brown, black, well rounded, frosted.
UNKNOWN MINERAL		Tr	Tr	Dark olive green, near spherical opaques, SEM indicates Al Si K Fe.
ZIRCON			Tr	Honey brown, colourless, yellow, rare euhedra and broken euhedra, transparent with vesicular inclusions to more rounded frosted opaque grains.
COMMENTS:	-2.0+0.8 fully obs.			Observed J.D.
	-0.8+0.25 concentrate magnetically separated.			by: Date: October 1998
	-0.8+0.25 fully obs.			
NM				
M6/7	-0.8+0.4 fully obs, -0.4+0.25 ½ obs.			
M4/5	-0.8+0.4 ¼ obs. -0.4+0.25 not obs.			
M1/2/3	Scalp not observed.			



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354642

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
27.96 kgs
248.66 grams
-2.0+0.25 mm
423

	%	%	%		
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. Palest yellow-grey, platy subhedra, moderately fresh to moderately worn.
APATITE					

BARITE	8%	30%	20%	Several cream/white, mostly saccharoidal in texture, opaque, also several colourless fragments, more fresh, transparent.
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	92%	60%	25%	Red-brown, yellow-brown, pisolitic.
GARNET				
GOLD				
GORCEIXITE		Tr	Tr	Red-brown, red-orange, amorphous, resinous, well worn.
HAEMATITE				
ILMENITE	Tr	10%	55%	Silvery-black, platy subhedra, moderately worn, some grains are quite spherical, silvery, finely frosted and pitted.
KYANITE				
LEUCOXENE			Tr	Beige, cream, tan, rarely grey-green, well rounded, porcelain-like, opaque.
MAGNETITE				
MICA				
MN OXIDE	Tr	Tr	Tr	Nodular, grey to dark grey-black, soft.
MONAZITE			Tr	Pale creamy orange, near spherical to ovate, reworked, smooth resinous lustre, opaque.
PHOSPHATES				
PREHNITE				
RUTILE			Tr	Silvery-black, reddish tints, near spherical to more euhedral, strong semi-metallic lustre.
SILLIMANITE			Tr	Rare, platy, colourless but strongly Fe-stained.
TOURMALINE		Tr	Tr	Black-brown, brown, rarely blue, near spherical reworked grains, smooth to finely frosted.
UNKNOWN MINERAL		Tr	Tr	SEM indicates Al Si K Fe, grey-green, opaque, well worn.
ZIRCON			Tr	Colourless, orange, yellow, most near spherical to ovate reworked grains.
COMMENTS: -2.0+0.8 fully obs. -0.8+0.25 concentrate magnetically separated. -0.8+0.25 fully obs. NM M6/7 -0.8+0.4 fully obs, -0.4+0.25 ½ obs. M4/5 -0.8+0.4 fully obs, -0.4+0.25 ¼ obs. M1/2/3 Scalp not observed.				
				Observed L.F. by: Date: Sept. 1998



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354643

ASSESSMENT

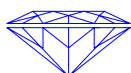
Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
16.02 kgs
196.36 grams
-2.0+0.25 mm
423

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		Yellow-blue, ice blue, tabular, translucent, subhedral.

APATITE				
BARITE	Tr	10%	20%	White, pale peach, pale yellow, blocky frosted grains, some etched to more rounded, granular; also some crystal aggregates.
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	85%	48%	Brown, red-brown, grey, dull, well rounded; also broken earthy fragments.
GARNET				
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE	Tr	5%	30%	Silvery-black, tabular subangular, high metallic lustre to more rounded and frosted.
KYANITE		Tr	Tr	Colourless, tabular, transparent with pearly sheen.
LEUCOXENE			Tr	Beige, blue-grey, after ilmenite, subangular to quite rounded.
MAGNETITE				
MICA				
MN OXIDE		Tr	Tr	Grey-black, dull, rounded.
MONAZITE			Tr	Cream, opaque, smooth, well rounded.
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE			Tr	Very rare. Black, opaque, semi-metallic lustre.
TOURMALINE		Tr	Tr	Green, black, brown, transparent to opaque, smooth to heavily frosted.
UNKNOWN MINERAL		Tr	2%	Dull olive green, opaque, well rounded, SEM indicates Al Si K Fe.
ZIRCON			Tr	Orange-red, honey brown, colourless, orange, vitreous subhedra to well rounded, translucent to opaque.
COMMENTS: -2.0+0.8 fully obs. -0.8+0.25 concentrate magnetically separated. NM -0.8+0.25 fully obs. M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.25 fully obs. M1/2/3 Scalp not observed.				
Observed by: J.D. Date: Sept. 1998				



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354644

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
38.24 kgs
152.54 grams
-2.0+0.25 mm
423

	%	%	%		
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					

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

ANATASE			Tr	Rare, blue-yellow, mottled, often as tabular plates, translucent, strong greasy lustre, moderately worn.
APATITE				
BARITE			Tr	Rare, colourless to quite milky, worn, translucent to opaque.
CALCITE				
CASSITERITE			Tr	Rare, vivid red/black, mottled, well worn, anhedral, translucent.
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	80%	35%	Mustard yellow, yellow-brown, red-brown, mostly rounded pisolitic grains, also some dull earthy grains.
GARNET				
GOLD				
GORCEIXITE	Tr			Rare, resinous, red-brown, well worn, opaque.
HAEMATITE				
ILMENITE	Tr	20%	55%	Bright silvery-black subhedra, moderately worn, also several well rounded grains, frosted and pitted.
KYANITE				
LEUCOXENE		Tr	4%	Cream, beige, tan, grey-blue, grey-green; grains are mostly well worn, quite dull, opaque; rare grains are more polished.
MAGNETITE				
MICA				
MN OXIDE	Tr	Tr		Dull dark grey nodules, soft.
MONAZITE			Tr	Milky orange, red-orange, ovate to near spherical, reworked, translucent to opaque.
PYROXENE				
RUTILE			Tr	Silvery-grey with reddish tints, near spherical reworked grains, often pitted.
STAUROLITE			Tr	Rare, pale orange-brown, well worn, transparent.
TOURMALINE		Tr	4%	Black-brown, near spherical, reworked grains, smooth to finely frosted.
ZIRCON		Tr	2%	Colourless, orange, yellow, red-orange, ovate to near spherical grains; also several worn vitreous euhedra and broken euhedra.
COMMENTS: -2.0+0.8 fully obs. -0.8+0.25 concentrate magnetically separated. NM -0.8+0.25 fully obs. M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.4 fully obs, -0.4+0.25 ¼ obs. M1/2/3 Scalp not observed.				
				Observed L.F. by: Date: Sept. 1998

HEAVY MINERAL ANALYSIS SHEET



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SAMPLE NO

354645

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
29.62 kgs
1238.72 grams
-2.0+0.25 mm
423

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.25 (in a 1/8 split) dull brownish-black, anhedral, finely cokey surface, vitreous core.
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	Tr	Yellow, orange-brown, blue, tabular, some platy aggregates, moderately worn.
APATITE			Tr	Very rare. Colourless prismatic crystals, transparent.
BARITE	Tr	Tr	Tr	Colourless to Fe-stained, tabular to more blocky and rounded, transparent to translucent, often etched, rarely creamy and saccharoidal.
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	40%	15%	Red-brown, yellow-brown, subrounded to pisolitic, dull.
GARNET				
GOLD				
GORCEIXITE		Tr	Tr	Orange-brown, mustard amorphous opaques.
HAEMATITE				
ILMENITE	Tr	60%	85%	Silvery-black subhedra, moderately worn.
KYANITE				
LEUCOXENE		Tr	Tr	Grey-green, grey-blue, beige, caramel, polished, after ilmenite.
MAGNETITE				
MICA				
MN OXIDE	Tr	Tr	Tr	Grey-black nodules, dull, soft.
MONAZITE			Tr	Very rare. Orange, well rounded resinous opaques.
PHOSPHATES				
PYROXENE	Tr	Tr	Tr	Yellow-brown, blocky to more lath-like, often more composite as larger grains.
RUTILE			Tr	Very rare. Orange-red, well rounded, anhedral.
SULPHIDES		Tr		1+0.4 pyrite, bright brassy euhedral grain.
TOURMALINE		Tr	Tr	Black-brown, near spherical grains.
UNKNOWN MINERAL		Tr	Tr	Dull olive green opaques, Al Si K Fe.
ZIRCON			Tr	Very rare. Colourless subhedra, moderately worn.
COMMENTS: -2.0+1.2 fully obs. -1.2+0.8 ¼ obs. -0.8+0.25 concentrate magnetically separated -0.8+0.25 fully obs. NM M6/7 -0.8+0.25 1/8 obs. M4/5 -0.8+0.25 not obs. M1/2/3 Scalp not observed.				
				Observed by: B.G. Date: Oct 1998



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354646

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
34.82 kgs
917.85 grams
-2.0+0.25 mm
423

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	+0.8	+0.4	+0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					

ANATASE			Tr	Rare, grey-blue, yellow-orange, well worn subhedra, frosted surfaces, weak semi-metallic lustre.
APATITE				
BARITE			Tr	Rare. Colourless irregular fragments, translucent, quite worn.
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	90%	100%	5%	Pisolitic, red-brown, brown, smooth, polished.
GARNET				
GOLD				
GORCEIXITE			Tr	Rare, red-brown, resinous, subangular, opaque.
HAEMATITE	Tr			Rare. Platy aggregates, silvery-grey.
ILMENITE	Tr	Tr	95%	Silvery-black, moderately fresh to moderately worn, some are platy.
KYANITE				
LEUCOXENE			Tr	Beige, cream, smooth, worn, porcelain-like.
MAGNETITE				
MICA				
MN OXIDE	Tr			Nodular, grey-brown, grey-black, dull, soft.
MONAZITE				
PHOSPHATES				
PREHNITE				
PYROXENE		Tr	Tr	Khaki-green, jagged laths, transparent.
RUTILE			Tr	Very rare. Dark cherry red, silvery-black, well worn.
SPHENE		Tr	Tr	Pale orange, palest yellow, fresh, transparent to translucent, angular fragments.
SPINEL				
STAUROLITE				
TOURMALINE	Tr	Tr	Tr	Black-brown, smooth, worn.
ZIRCON			Tr	Colourless, Fe-stained, near spherical, spherical to ovate, rare worn euhedra.
ROCK FRAGMENTS	10%	Tr		Pyroxene aggregates.
COMMENTS: -2.0+0.8 concentrate fully observed. -0.8+0.25 concentrate magnetically separated. -0.8+0.4 fully obs, -0.4+0.25 ¼ obs. NM M6/7 -0.8+0.4 fully obs, -0.4+0.25 ¼ obs. M4/5 -0.8+0.25 not obs. M1/2/3 Scalp not observed.				
				Observed L.F. by: Date: Oct. 1998



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354647

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
35.46 kgs
10.84 grams
-2.0+0.25 mm
418

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	Deep blue, silvery grey, blue-grey, tabular sub-transparent grains to more opaque granular aggregates.
APATITE				
BARITE	Tr	3%	Tr	White, colourless, pale yellow, tabular blocky to rounded, frosted with some grains deeply etched.
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	35%	10%	Brown, tan, red-brown, well rounded.
GARNET				
GOLD				
GORCEIXITE		Tr	Tr	Brown, orange-brown, grey, caramel, dull to quite polished amorphous opaque grains.
HAEMATITE				
ILMENITE	Tr	46%	50%	Silvery-black, blocky subangular with high metallic lustre to more rounded frosted and pitted grains.
KYANITE				
LEUCOXENE			Tr	Brown, subangular grains after ilmenite.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE			Tr	Yellow, translucent, subhedral with resinous lustre.
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE			Tr	Rare. Cherry red, rounded well worn with semi-metallic lustre.
SPHENE				
SPINEL				
SULPHIDES				
TOURMALINE	Tr	15%	20%	Black-brown, blue, all well rounded.
ZIRCON		1%	20%	Yellow, orange-brown, honey brown, colourless, palest pink, sub-transparent to opaque, smooth to frosted surface, ovate to near spherical
COMMENTS: Concentrate fully observed.				Observed by: J.D. Date: Sept. 1998.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354648

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

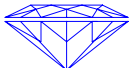
NEGATIVE

STREAMSED
33.28 kgs
3881.49 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					
	%	%	%		
OTHER MINERALS	+0.8	+0.4	+0.25	mm	BRIEF DESCRIPTION

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			Tr	Very rare. Golden, blue, platy subhedra, some as platy aggregates, moderately worn.
APATITE				
BARITE	Tr	Tr	Tr	Colourless to orange-toned, blocky to more tabular, some quite rounded, transparent to translucent, often frosted and etched.
CALCITE				
CASSITERITE				
CORUNDUM			Tr	Very rare. Pale blue, prismatic to more platy subhedra, moderately worn.
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	30%	Tr	Orange-brown, red-brown, yellow-brown, dull, pisolitic.
GARNET				
GOLD				
GORCEIXITE		Tr	Tr	Orange-red, orange-brown, sub-resinous amorphous opaques.
HAEMATITE				
ILMENITE	Tr	70%	100%	Silvery-black subhedra, strong metallic lustre.
KYANITE				
LEUCOXENE			Tr	Grey-green, beige, brown, after ilmenite.
MAGNETITE				
MICA				
MN OXIDE	Tr	Tr	Tr	Dull grey-black, nodular.
MONAZITE				
PYROXENE	Tr	Tr	Tr	Rare. Yellowish-brown, lath-like, larger grains are often more composite.
RUTILE			Tr	Orange, orange-red, rounded to more platy, strong semi-metallic lustre.
SULPHIDES		Tr	Tr	Very rare pyrite. Granular, dull, brassy.
TOURMALINE		Tr	Tr	Black-brown, near spherical.
UNKNOWN MINERAL		Tr	Tr	Olive green, near spherical opaques, Al Si K Fe.
ZIRCON			Tr	Yellow, colourless, orange-brown, near spherical to prismatic.
COMMENTS:	-2.0+0.8 fully obs.			Observed B.G.
	-0.8+0.25 concentrate magnetically separated.			by: Date: Sept. 1998
	-0.8+0.25 fully obs.			
NM				
M6/7	-0.8+0.4 ¼ obs. -0.4+0.25 1/16 obs.			
M4/5	-0.8+0.25 not obs.			
M1/2/3	Scalp not observed.			



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

ASSESSMENT

Type of sample

Head Weight

Conc Weight -1.2+0.25mm

Size fractions observed

Disc No

354649

NEGATIVE

STREAMSED

	26.00	kgs
	34.01	grams
	-2.0+0.25	mm
	418	

	%	%	%		
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	Pale blue-grey, yellow-blue, often tabular, subhedral, translucent, moderately fresh to moderately worn.
APATITE				
BARITE		Tr		Rare. Cream to greyish, saccharoidal, translucent.
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	50%	50%	50%	Dark red-brown, irregular, polished.
GARNET				
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE		Tr	Tr	Very rare. Black to silvery-black subhedra, moderately worn.
KYANITE				
LEUCOXENE			Tr	Cream, dull, well worn, opaque.
MAGNETITE	50%	50%	50%	Removed by hand magnet, highly magnetic material.
MICA				
MN OXIDE				
MONAZITE			Tr	Rare. Creamy-orange, near spherical, mostly well worn.
PHOSPHATES				
PREHNITE				
PYROXENE			Tr	Rare, khaki-green, jagged laths, moderately fresh, transparent.
RUTILE				
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES		Tr		1+0.4, pyrite, very dull, tarnished.
TOURMALINE			Tr	Black-brown, near spherical, smooth to frosted.
ZIRCON			Tr	Very rare, colourless, well worn, vitreous.
ROCK FRAGMENTS				
COMMENTS: Concentrate fully observed.				Observed by: L.F. Date: Sept. 1998.

HEAVY MINERAL ANALYSIS SHEET



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File: 98-041.doc

SAMPLE NO

354653

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
31.14 kgs
3.04 grams
-2.0+0.25 mm
418

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	Pale blue-grey, silvery-grey, well worn, translucent, soft greasy sheen.
APATITE				
BARITE		Tr	Tr	Rare. Colourless, deeply etched, blocky, translucent.
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	50%	8%	Yellow-brown, earthy, the larger grains are usually red-brown, dull, earthy, some pisolitic.
GARNET				
GOLD				
GORCEIXITE	Tr	Tr	Tr	Pale reddish-brown, mottled cream, well worn, amorphous, resinous, opaque.
HAEMATITE				
ILMENITE		25%	35%	
KYANITE				
LEUCOXENE			Tr	Beige, cream, well worn, opaque.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE		Tr	Tr	Near spherical, resinous, red, orange-red, cream, opaque.
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE			Tr	Silvery-black, near spherical, pitted, worn.
SPHENE				
SPINEL				
STAUROLITE			Tr	Rare, tabular orange-brown crystals, worn, translucent.
SULPHIDES				
TOURMALINE	Tr	25%	55%	Black-brown, near spherical reworked grains, frosted to smooth.
XENOTIME				
ZIRCON		Tr	2%	Milky, yellow/cream/colourless, near spherical to ovate.
COMMENTS: Concentrate fully observed. <div style="text-align: right;"> Observed L.F. by: Date: Sept. 1998. </div>				



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354654

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
25.86 kgs
12.66 grams
-2.0+0.25 mm
418

	%	%	%		
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	Blue-grey, tabular, translucent.
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	95%	30%	Brown, red-brown, tan, dull well rounded, also some earthy angular fragments.
GARNET				
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE		2%	40%	Silvery-black, tabular, subangular, grooved with high metallic lustre to more rounded and frosted.
KYANITE				
LEUCOXENE			Tr	Grey, beige, subangular, opaque to more rounded, polished.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE		Tr	Tr	Cream, caramel, orange, smooth opaque well rounded grains with resinous lustre.
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE			Tr	Black, quite rounded with silvery sheen.
SPHENE				
SPINEL				
STAUROLITE			Tr	Orange-brown, blocky, frosted with small black inclusions.
TOURMALINE	Tr	3%	30%	Black-brown, brown, pale orange, all grains smooth and well rounded.
ZIRCON		Tr	Tr	Colourless, honey brown, red-brown, orange, palest pink, translucent to opaque ovate grains with frosted appearance to more rare vitreous broken euhedra with vesicular inclusions.
COMMENTS: Concentrate fully observed. <div style="text-align: right;"> Observed by: J.D. Date: Sept. 1998. </div>				



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354655

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
18.46 kgs
409.29 grams
-2.0+0.25 mm
423

	%	%	%		
KEY MINERALS	+0.8	+0.4	+0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL		Tr			1+0.4 black, dull, well rounded, granular fracture.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					
	%	%	%		
OTHER MINERALS	+0.8	+0.4	+0.25	mm	BRIEF DESCRIPTION

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			Tr	Yellow-grey, translucent, tabular, subhedral.
APATITE				
BARITE				
CALCITE				
CHLORITE			Tr	Dark green, opaque, book and flakes.
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	100%	100%	Red-brown, tan, brown, dull, blocky to rounded.
GARNET				
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE		Tr	Tr	Silvery-black, subangular with high metallic lustre to more rounded and frosted.
KYANITE				
LEUCOXENE				
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE			Tr	Pale orange, opaque, smooth, well rounded with resinous lustre.
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE				
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE		Tr	Tr	Black, brown, well rounded.
XENOTIME				
ZIRCON			Tr	Yellow, colourless, translucent to opaque, smooth well rounded grains.
COMMENTS:	-2.0+0.8 fully obs.			Observed J.D.
	-0.8+0.25 concentrate magnetically separated.			by: Date: Sept. 1998
	-0.8+0.25 fully obs.			
NM				
M6/7	-0.8+0.25 fully obs.			
M4/5	-0.8+0.25 fully obs			
M1/2/3	Scalp not observed			



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354656

ASSESSMENT

Type of sample

Head Weight

Conc Weight -1.2+0.25mm

Size fractions observed

Disc No

NEGATIVE

STREAMSED

29.48

kgs

3.87

grams

-2.0+0.25

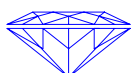
mm

418

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	+0.8	+0.4	+0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Pale grey, translucent, well worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Rare, colourless/blue mottled, vitreous, worn, transparent.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	Tr		
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Red-brown, subrounded amorphous grains, smooth, worn, resinous, opaque.
HAEMATITE					
ILMENITE	Tr	Tr	33%		Silvery-black subhedra, moderately worn to worn, some partly leucoxenised.
KYANITE					
LEUCOXENE	Tr	Tr	5%		Cream, beige, dull to porcelain-like, well worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			Tr		Cream, orange, well rounded, resinous, opaque.
PHOSPHATES			35%		Cream, irregular, subrounded, opaque, resinous.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE			Tr		Orange-brown, well worn, translucent.
SULPHIDES					
TOURMALINE	Tr	Tr	25%		Black-brown, near spherical reworked grains, frosted to smooth.
XENOTIME					
ZIRCON		Tr	2%		Milky, colourless/white/yellow/orange, near spherical reworked grains.
COMMENTS: Concentrate fully observed.					Observed by: L.F. Date: Sept. 1998.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354657

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No


POSITIVE

STREAMSED
31.26 kgs
0.64 grams
-2.0+0.20 mm
418

KEY MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
DIAMOND			Tr		1+0.25, stepped multi-twinned octahedra, positive trigons, colourless to slightly greenish, inclusion free, some abrasion evident.
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.20, near spherical, slightly brownish, weathered. Poss Kimb.
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				
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	40%	15%	Reddish-brown, dull to resinous, "phosphate-like" in appearance.
GARNET				
GORCEIXITE				
HAEMATITE				
ILMENITE		25%	5%	Dull silvery-black, mostly worn to well worn subhedra.
KYANITE				
LEUCOXENE		Tr	15%	Creamy white, beige, often dull, opaque, well worn, rare grains are chocolate brown, almost vitreous, more fresh, fragmented.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE			Tr	Pale orange, creamy orange, near spherical reworked grains.
PHOSPHATES	Tr	5%	25%	Cream, pale orange, often mottled, irregular, resinous to dull.
PREHNITE				
PYROXENE			Tr	Very rare. Palest beige-brown, blocky, very finely striate, transparent.
STAUROLITE			Tr	Very rare. Orange-brown, near spherical, well worn, translucent.
TOURMALINE	Tr	30%	40%	Black-brown, near spherical, reworked, frosted to smooth.
ZIRCON			Tr	Rare, often milky, Fe-stained, near spherical reworked grains, rare broken euhedra, one grain is intergrown/composite with leucoxene.
COMMENTS:	Concentrate fully observed.			Observed L.F. by: Date: Sept. 1998.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO 354658

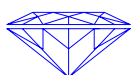
ASSESSMENT **NEGATIVE**

Type of sample
Head Weight 27.92 kgs
Conc Weight -1.2+0.25mm 471.40 grams
Size fractions observed -2.0+0.25 mm
Disc No -

	%	%	%	
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		Very rare. Beige, yellow, golden, platy, subhedral, moderately worn.
APATITE					
BARITE	Tr	Tr	Tr		Colourless to more pinkish-toned, blocky, tabular to more rounded, transparent to translucent, rarely saccharoidal.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	75%	Tr		Yellow-brown, red-brown, brown, generally pisolitic.
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Very rare. Orange-brown, sub-resinous rounded opaques.
HAEMATITE					
ILMENITE	Tr	25%	100%		Silvery-black subhedra, moderately worn, also more rounded frosted and pitted grains.
KYANITE					
LEUCOXENE			Tr		Very rare. Beige, tan, brown, polished, after ilmenite.
MAGNETITE					
MICA					
MN OXIDE	Tr	Tr	Tr		Dull grey-black, nodular.
MONAZITE			Tr		Very rare. Red-brown, resinous, rounded.
PHOSPHATES					
PREHNITE					
PYROXENE	Tr	Tr	Tr		Very rare. Yellowish-brown, blocky to more ragged and lath-like, some quite composite.
RUTILE					
SPHENE					
STAUROLITE			Tr		Very rare. Orange-brown rounded anhedral.
TOURMALINE		Tr	Tr		Black-brown, near spherical grains.
UNKNOWN MINERAL			Tr		Dark olive green opaques, Al Si K Fe.
ZIRCON		Tr	Tr		Orange, orange-brown, colourless, near spherical, also broken euhedral grains with fine vesicular inclusions.
COMMENTS:	-2.0+0.8 fully obs.				Observed B.G.
	-0.8+0.25 concentrate magnetically separated.				by: Date: Sept. 1998
	-0.8+0.4 fully obs, -0.4+0.25 ¼ obs.				
NM					
M6/7	-0.8+0.4 fully obs, -0.4+0.25 1/8 obs.				
M4/5	-0.8+0.25 not obs.				
M1/2/3	Scalp not observed.				



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354659

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
29.02 kgs
618.66 grams
-2.0+0.25 mm
423

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		
AMPHIBOLE					
ANATASE					
APATITE					
BARITE	Tr	Tr	Tr		Colourless to Fe-stained, generally quite rounded, some more tabular, transparent to translucent, often etched, rarely saccharoidal.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	85%	65%	Tr		Yellow-brown, red-brown, dull, generally pisolitic.
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Very rare. Orange, orange-brown amorphous opaques.
HAEMATITE					
ILMENITE	Tr	20%	100%		Silvery-black subhedra, moderately worn.
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE	10%	10%	Tr		Dull grey-black nodules.
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE	5%	5%	Tr		Yellowish-brown, greenish-brown, brown, blocky rounded grains, larger fractions are more composite.
RUTILE		Tr	Tr		Very rare. Red, near spherical, strong semi-metallic lustre.
SPHENE					
SPINEL					
STAUROLITE		Tr	Tr		Very rare. Orange-brown, subangular, moderately worn.
SULPHIDES					
TOURMALINE		Tr	Tr		Black-brown, near spherical grains.
UNKNOWN MINERAL		Tr	Tr		Very rare. Olive green, spherical opaques, Al Si K Fe.
ZIRCON					
COMMENTS: -2.0+0.8 fully obs. -0.8+0.25 concentrate magnetically separated. NM -0.8+0.25 fully obs. M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.25 not obs. M1/2/3 Scalp not observed.					
				Observed by:	B.G. Date: Sept. 1998



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File: 98-041.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354660

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
26.56 kgs
332.69 grams
-2.0+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	+0.8	+0.4	+0.25	mm BRIEF DESCRIPTION
AMPHIBOLE				
ANATASE			Tr	Ice blue, translucent tabular subhedra.
APATITE				
BARITE	Tr	10%	5%	White, colourless, pale peach, blocky, tabular to more rounded, frosted with some grains heavily etched.
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	85%	20%	Brown, red-brown, dull, rounded.
GARNET				
GOLD				
GORCEIXITE		Tr	Tr	Red-brown, opaque amorphous grains.
HAEMATITE				
ILMENITE	Tr	5%	65%	Silvery-black, tabular, subangular with high metallic lustre to more rounded grains being frosted and lightly pitted.
KYANITE				
LEUCOXENE		Tr	Tr	Brown, beige, after ilmenite, angular grains, polished surfaces.
MAGNETITE				
MICA				
MN OXIDE	Tr	Tr	Tr	Grey-black, dull, opaque, rounded.
MONAZITE				
PHOSPHATES				
PREHNITE				
PYROXENE		Tr	Tr	Greenish-brown, translucent, some with surface striations, rough jagged grains.
RUTILE				
SPHENE				
SPINEL				
TOURMALINE		Tr	10%	Black, brown, blue, transparent to opaque, well rounded.
ZIRCON			Tr	Honey brown, colourless, orange-red, transparent to opaque, rare subhedra, others more rounded.
ROCK FRAGMENTS		Tr	Tr	Pyroxene/Fe-oxide composites.
COMMENTS:	-2.0+0.8 fully obs.			Observed J.D.
	-0.8+0.25 concentrate magnetically separated.			by:
	-0.8+0.25 fully obs.			Date: Sept. 1998
NM				
M6/7	-0.8+0.25 fully obs.			
M4/5	-0.8+0.4 fully obs, -0.4+0.25 ½ obs.			
M1/2/3	Scalp not observed.			



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354661

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
26.04 kgs
627.04 grams
-0.8+0.25 mm
423

	%	%	%	
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	Blue, blue/beige, sub/anhedral, moderately worn.
APATITE				
BARITE		Tr	Tr	Colourless to creamy, blocky to quite rounded, translucent to saccharoidal and opaque.
CALCITE				
CASSITERITE				
CORUNDUM			Tr	Very rare. Violet, palest blue, subhedral, moderately worn.
EPIDOTE				
FE OXIDE/HYDROXIDE		95%	10%	Red-brown, yellow-brown, dull, generally pisolitic, some are more angular and earthy.
GARNET		Tr	Tr	Very rare. Almandine, andradite, orange, pale orange, yellow, subangular, moderately worn.
GOLD				
GORCEIXITE		Tr	Tr	Red-brown, creamy brown, orange, sub-resinous amorphous opaques.
HAEMATITE				
ILMENITE		5%	90%	Silvery-black, subhedral, moderately worn, also more rounded frosted and pitted grains.
KYANITE				
LEUCOXENE			Tr	Rare. Creamy beige, dull.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE			Tr	Very rare. Orange resinous well rounded opaques.
PHOSPHATES				
PREHNITE				
PYROXENE		Tr	Tr	Pale brownish-green to brown, blocky to more lath-like, transparent to translucent, often more composite.
RUTILE				
STAUROLITE		Tr		1+0.4, dull, subtranslucent, blocky, prismatic.
SULPHIDES		Tr	Tr	Very rare. Pyrite, brassy, dull, cubic to more tabular.
TOURMALINE		Tr	Tr	Black-brown, near spherical.
UNKNOWN MINERAL		Tr	Tr	Olive green opaques, Al Si K Fe.
ZIRCON			Tr	Orange, colourless, near spherical to rare euhedral grains with fine vesicular inclusions.
COMMENTS:	-2.0+0.8 not obs.			Observed B.G.
	-0.8+0.25 concentrate magnetically separated.			by:
	-0.8+0.25 fully obs.			Date: Oct. 1998
NM				
M6/7	-0.8+0.4 fully obs, -0.4+0.25 ½ obs.			
M4/5	-0.8+0.4 fully obs, -0.4+0.25 1/16 obs.			
M1/2/3	Scalp not observed.			



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354662

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
35.88 kgs
296.75 grams
-2.0+0.25 mm
423

	%	%	%	
KEY MINERALS	+0.8	+0.4	+0.25	mm BRIEF DESCRIPTION
DIAMOND				
PYROPE				
CHROMITE/CR SPINEL		Tr		1+0.4, subhedral, thick dull grey-black cokey surface, moderately worn.

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	Grey-blue, orange-yellow, often as tabular subhedra but also as granular aggregates.
APATITE				
BARITE			Tr	Colourless, translucent, blocky, moderately fresh.
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	95%	13%	Dull, earthy, red-brown, orange-brown, yellow-brown.
GARNET				
GOLD				
GORCEIXITE				
HAEMATITE	Tr	Tr		Finely granular aggregates, silvery-black.
ILMENITE	Tr	5%	85%	Bright silvery-black, moderately fresh, some partly leucogenised.
KYANITE				
LEUCOXENE			Tr	Beige, tan, cream, many after ilmenite.
MAGNETITE				
MICA				
MN OXIDE	Tr	Tr	Tr	Dull, soft, friable, grey-black.
MONAZITE				
PHOSPHATES				
PREHNITE				
PYROXENE			Tr	Yellow-brown, khaki, moderately fresh transparent laths.
RUTILE				
SPHENE			Tr	Rare, yellow, semi-opaque, moderately fresh.
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE	Tr	Tr	2%	Black-brown, near spherical frosted grains.
XENOTIME				
ZIRCON			Tr	Colourless, Fe-stained, near spherical grains.
COMMENTS: -2.0+0.8 fully obs. Observed L.F. by: Date: Oct. 1998. NM -0.8+0.25 concentrate magnetically separated. M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.4 fully obs, -0.4+0.25 ½ obs. M1/2/3 -0.8+0.4 fully obs, -0.4+0.25 not obs. Scalp not observed.				



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354663

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
17.28 kgs
145.4 grams
-2.0+0.25 mm
415

	%	%	%	
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. Greyish-green, orange, grey, rounded anhedral.
APATITE				
BARITE				
CALCITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	100%	100%	Purply-red, red-brown, brown, subangular to sub-rounded, lightly polished.
GARNET				
GOLD				
GORCEIXITE			Tr	Cream, orange, resinous opaque.
HAEMATITE				
ILMENITE		Tr	Tr	Silvery-black subhedra, moderately worn.
KYANITE				
LEUCOXENE			Tr	Very rare. Beige, greyish-cream, dull, rounded, opaque.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE			Tr	Beige, creamy orange, resinous, well rounded opaques.
PHOSPHATES				
PREHNITE				
PYROXENE			Tr	1+0.25, brown, subangular, platy, striate, moderately fresh.
RUTILE				
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE		Tr	Tr	Black-brown near spherical grains.
XENOTIME				
ZIRCON			Tr	Very rare. Orange, creamy beige, colourless, near ovate to euhedral, transparent to translucent.
ROCK FRAGMENTS		Tr	Tr	Very rare. Fe-oxide/phosphate composites.
COMMENTS: -2.0+0.8 fully obs. Observed B.G. by: -0.8+0.25 concentrate magnetically separated. Date: August, 1998 -0.8+0.25 fully obs. NM M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.25 fully obs. M1/2/3 Scalp not observed.				



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354666

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
25.28 kgs
193.59 grams
-2.0+0.25 mm
418

	%	%	%	
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		Pale blue-grey, yellow-blue, platy subhedra, translucent.
APATITE					
BARITE		Tr	Tr		Rare. Colourless, milky, blocky grains, frosted, translucent.
CALCITE					
CASSITERITE			Tr		Cherry red, mottled black, well worn, smooth.
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	100%		Smooth, red-brown, pisolitic.
GARNET			Tr		1+0.25, almandine, pale orange, worn, translucent.
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	Tr		Silvery-black, platy subhedra, moderately worn to well worn.
KYANITE					
LEUCOXENE		Tr	Tr		Cream, beige, well worn, near spherical, some after ilmenite.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Silvery-black, reddish tints, well worn ovate to rounded grains.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Black-brown, near spherical, smooth, translucent.
XENOTIME					
ZIRCON		Tr	Tr		Mostly colourless to very pale pink, worn broken euhedra, rarely spherical.

COMMENTS: -2.0+0.8 fully obs.

Observed L.F.

by:

Date: Sept. 1998.

-0.8+0.25 concentrate magnetically separated.

NM -0.8+0.25 fully obs.

M6/7 -0.8+0.4 fully obs, -0.4+0.25 ½ obs.

M4/5 -0.8+0.25 fully obs.

M1/2/3 Scalp not observed.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354667

ASSESSMENT

Type of sample

Head Weight

Conc Weight -1.2+0.25mm

Size fractions observed

Disc No

NEGATIVE

STREAMSED

23.90 kgs

338.56 grams

-2.0+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	+0.8	+0.4	+0.25	mm BRIEF DESCRIPTION
AMPHIBOLE				
ANATASE			Tr	Golden yellow, blue-grey, translucent subhedra.
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	100%	100%	Brown, red-brown, rounded, also dull earthy broken fragments.
GARNET			Tr	Almandine, 1+0.25, transparent, angular, well worn.
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE		Tr	Tr	Silvery-black, sub-rounded, metallic lustre to slightly frosted.
KYANITE		Tr	Tr	Colourless/blue, transparent, tabular elongate crystals.
LEUCOXENE			Tr	Beige, polished opaques.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE				
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE			Tr	Cherry red, rounded with semi-metallic lustre.
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE		Tr	Tr	Black, brown, blue, well rounded.
XENOTIME				
ZIRCON			Tr	Colourless, honey brown, broken euhedra to well rounded, vitreous to dull frosted surface.
COMMENTS:	-2.0+0.8 fully obs.			Observed J.D.
	-0.8+0.25 concentrate magnetically separated.			by:
	-0.8+0.25 fully obs.			Date: Sept. 1998
NM				
M6/7	-0.8+0.25 fully obs.			
M4/5	-0.8+0.25 fully obs.			
M1/2/3	Scalp not observed.			



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354673

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE


STREAMSED
29.84 kgs
76.22 grams
-2.0+0.25 mm
418

	%	%	%	
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	BRIEF DESCRIPTION
AMPHIBOLE				
ANATASE		Tr	Tr	Brownish-yellow, golden, grey, sub/anhedra, translucent to near opaque, some well rounded.
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	100%	100%	Orange-brown, red-brown, dull, pisolitic.
GARNET				
GOLD				
GORCEIXITE	Tr	Tr	Tr	Very rare. Cream, orange-brown, sub-resinous, opaque.
HAEMATITE				
ILMENITE		Tr	Tr	Dull grey-black well rounded sub/anhedra.
KYANITE				
LEUCOXENE		Tr	Tr	Beige, cream, dull, well rounded anhedra.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE				
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE			Tr	Very rare. Dull black well rounded anhedra.
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE	Tr	Tr	Tr	Black-brown, brown, near spherical grains.
XENOTIME				
ZIRCON			Tr	Colourless broken euhedra with fine vesicular inclusions.
ROCK FRAGMENTS				

COMMENTS:	Concentrate fully observed.	Observed by: B.G.
		Date: Sept. 1998.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO 354674

ASSESSMENT

Type of sample

Head Weight

Conc Weight -1.2+0.25mm

Size fractions observed

Disc No

NEGATIVE

STREAMSED

16.04 kgs

1792.8 grams

-0.8+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	Tr		Colourless, white, tabular, frosted.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE		80%	55%		Brown, red-brown, dull, rounded.
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Orange-brown, red-brown, opaque amorphous grains.
HAEMATITE					
ILMENITE		20%	45%		Silvery-black, subangular, tabular, subhedral, grooved, high metallic lustre to more rounded grains, frosted, pitted, some partly leucoxenised.
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE		Tr	Tr		Orange, cream, opaque, rounded with resinous lustre.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Cherry red, subhedral with semi-metallic lustre.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE			Tr		Brown, smooth, well rounded.
XENOTIME					
ZIRCON		Tr	Tr		Colourless, broken euhedra with vesicular inclusions, vitreous, rarely ovate.
COMMENTS:	-2.0+0.8 not obs.				Observed J.D.
	-0.8+0.25 concentrate magnetically separated.				by: Date: Oct. 1998
	-0.8+0.25 fully obs.				
NM					
M6/7	-0.8+0.25 1/8 obs.				
M4/5	-0.8+0.25 1/8 obs.				
M1/2/3	Scalp not observed.				



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354675

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
17.06 kgs
1323.22 grams
-0.8+0.25 mm
423

% % %

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		Beige, yellow, greenish-beige, sub/anhedra, trans/subtranslucent, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE		100%	95%		Red-brown, yellow-brown, generally well rounded, dull.
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Orange, creamy orange, greyish-beige, yellow, sub-resinous, amorphous, translucent to opaque.
HAEMATITE					
ILMENITE		Tr	5%		Silvery-black, subhedra, bright metallic lustre, moderately worn.
KYANITE					
LEUCOXENE			Tr		Very rare. Beige, subhedral, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Very rare. Orange, sub-translucent, prismatic, moderately worn.
SPHENE					
SPINEL					
TOURMALINE		Tr	Tr		Black-brown near spherical grains.
XENOTIME					
ZIRCON		Tr	Tr		Very rare. Colourless, beige, broken euhedra, also near spherical Fe-stained grains.
COMMENTS:	-2.0+0.8 not obs.			Observed	B.G.
	-0.8+0.25 concentrate magnetically separated.			by:	Date: Oct. 1998.
	-0.8+0.4 fully obs, -0.4+0.25 ½ obs.				
NM					
M6/7	-0.8+0.25 1/32 obs.				
M4/5	-0.8+0.25 1/8 obs.				
M1/2/3	Scalp not observed.				

HEAVY MINERAL ANALYSIS SHEET



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SAMPLE NO

354676

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
22.24 kgs
4278.12 grams
-2.0+0.25 mm
423

% % %

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
Al SILICATES			Tr		Colourless, Fe-stained, transparent, worn, small black inclusions.
ANATASE					
APATITE					
BARITE		Tr	Tr		Rare. Colourless, moderately worn, blocky, translucent.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	92%		Dark red-brown, dull, smooth, many pisolitic.
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Red-brown, subangular to sub-rounded, opaque, resinous.
HAEMATITE					
ILMENITE		Tr	8%		Moderately worn, silvery black, broken subhedra.
KYANITE					
LEUCOXENE			Tr		Rare, beige, cream, smooth, worn, porcelain-like.
MAGNETITE					
MICA					
MN OXIDE	Tr	Tr	Tr		Soft nodular grey-black grains.
MONAZITE			Tr		Rare. Pale creamy-yellow, smooth, resinous, well worn.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Black-brown, well worn near spherical grains.
XENOTIME					
ZIRCON			Tr		Rare, colourless, well worn ovate to near spherical grains, also worn euhedra.

COMMENTS: -2.0+1.2 grease table concentrated. No diamonds recovered. Observed L.F.
by: Date: Oct. 1998

-1.2+0.25 concentrate magnetically separated.

-1.2+0.4 fully obs, -0.4+0.25 ½ obs.

NM

M6/7 -1.2+0.8 not obs, -0.8+0.25 1/16 obs.

M4/5 -1.2+0.8 not obs, -0.8+0.25 1/16 obs.

M1/2/3 Scalp not observed.

HEAVY MINERAL ANALYSIS SHEET



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 98-041.doc

SAMPLE NO

354678

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
20.54 kgs
1170.52 grams
-0.8+0.25 mm
423

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		
AMPHIBOLE					
ANATASE			Tr		Very rare. Blue-grey, rounded, subhedral, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE		100%	100%		Purple-brown, red-brown, yellow-brown, subangular to sub-rounded, fragmented, dull.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	Tr		Rare. Silvery-black subhedra, moderately worn.
KYANITE					
LEUCOXENE			Tr		Very rare. Creamy beige, sub/anhedral, dull, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE			Tr		Black-brown, near spherical grains.
UNKNOWN MINERAL		Tr	Tr		Very rare. Dull olive green opaques, Al Si K Fe.
ZIRCON		Tr	Tr		Very rare. Beige, rounded to subhedral, moderately worn to worn.

COMMENTS: -2.0+0.8 not obs. Observed by: B.G.
-0.8+0.25 concentrate magnetically separated. Date: Oct. 1998
NM -0.8+0.25 fully obs.
M6/7 -0.8+0.25 1/16 obs.
M4/5 -0.8+0.25 1/8 obs.
M1/2/3 Scalp not observed.



Diatech
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 98-041.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354680

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
24.20 kgs
12.47 grams
-2.0+0.25 mm
418

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.25, black, almost silvery sheen, well rounded with soft granular fracture.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE			Tr		Very rare. ice blue, opaque and well rounded.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	99%	65%		Brown, red-brown, rounded to dull broken earthy fragments.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	15%		Silvery-black, subangular smooth semi-metallic lustre to more rounded, frosted and finely pitted.
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES		Tr	5%		Orange, cream, yellow, grey, honey brown, translucent to opaque well rounded with resinous lustre.
PREHNITE					
PYROXENE					
RUTILE					
STAUROLITE					
SULPHIDES					
TOURMALINE		1%	15%		Black, brown, green, transparent to opaque, well rounded.
XENOTIME					
ZIRCON					

COMMENTS: Concentrate fully observed.

Observed by: J.D.
Date: Sept. 1998.

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354681



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 98-041.doc

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
15.80 kgs
1.7 grams
-2.0+0.25 mm
417

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	+0.8	+0.4	+0.25	mm BRIEF DESCRIPTION
AMPHIBOLE				
ANATASE				
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	70%	10%	Dark chocolate-brown, dull, worn.
GARNET				
GOLD				
GORCEIXITE		Tr	Tr	Cream-reddish, mottled, resinous opaques, worn.
HAEMATITE				
ILMENITE		Tr	Tr	Silvery-black subhedra, moderately worn to worn.
KYANITE				
LEUCOXENE		Tr	20%	Grey, cream, near spherical, dull, opaque.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE			Tr	Near spherical, pale orange, resinous, opaque.
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE				
SPHENE				
SPINEL				
STAUROLITE			Tr	Rare, orange-brown, well worn, translucent to transparent.
SULPHIDES				
TOURMALINE		30%	70%	Black-brown, near spherical reworked grains, frosted.
XENOTIME				
ZIRCON			Tr	Rare, colourless, milky, near spherical reworked grains.
ROCK FRAGMENTS				

COMMENTS: -2.0+0.25 concentrate fully observed.

Observed by: L.F.
Date: August, 1998.

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354682



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 98-041.doc

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
14.28 kgs
1274.70 grams
-2.0+0.25 mm
-

KEY MINERALS	%	%	%	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. Palest blue, tabular subhedra, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	100%		Purple-brown, red-brown, rarely yellow-brown, generally near platy to sub-rounded, dull, often quite earthy.
GARNET					
GOLD					
GORCEIXITE			Tr		Very rare. Orange-brown, yellow-brown amorphous sub-resinous opaques.
HAEMATITE					
ILMENITE		Tr	Tr		Silvery-black subhedra, moderately worn.
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			Tr		Very rare. Cream, dull, near spherical, opaque.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Very rare. Black-brown, near spherical grains.
XENOTIME					
ZIRCON					

COMMENTS: -2.0+0.8 fully obs.

Observed by: B.G.

-0.8+0.25 concentrate magnetically separated.

Date: Sept. 1998

-0.8+0.25 fully obs.

NM

M6/7 -0.8+0.25 1/16 obs.

M4/5 -0.8+0.25 fully obs.

M1/2/3 Scalp not observed.

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354683



DIATECH

Ph 61 8 9361 2596

Fx 61 8 9470 1504

File: 98-041.doc

ASSESSMENT

Type of sample

Head Weight

Conc Weight -1.2+0.25mm

Size fractions observed

Disc No

NEGATIVE

STREAMSED

21.98

kgs

107.81

grams

-2.0+0.25

mm

418

% % %

KEY MINERALS	+0.8	+0.4	+0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.25, black rounded grain, very finely pitted.
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			Tr		Dark bottle green, quite blocky.
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	10%	Tr		Brown, red-brown, dull, well rounded, also broken earthy fragments.
GARNET					
GOLD					
GORCEIXITE		Tr	Tr		Brown, red-brown, amorphous opaque grains.
HAEMATITE					
ILMENITE	Tr	90%	100%		Silvery-black, tabular, subangular with metallic lustre to rounded grains, more dull and frosted, some partly leucogenised.
KYANITE					
LEUCOXENE			Tr		Beige, brown, after ilmenite, subangular to more rounded.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Black, brown, frosted, well rounded.
XENOTIME					
ZIRCON					

COMMENTS: -2.0+0.8 fully obs.

Observed J.D.

by:

Date: Sept. 1998

-0.8+0.25 concentrate magnetically separated.

-0.8+0.25 fully obs.

NM

M6/7 -0.8+0.25 fully obs.

M4/5 -0.8+0.4 fully obs, -0.4+0.25 ¼ obs.

M1/2/3 Scalp not observed.

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354734



DIATECH

Ph 61 8 9361 2596

Fx 61 8 9470 1504

File: 98-041.doc

ASSESSMENT

Type of sample

Head Weight

Conc Weight -1.2+0.25mm

Size fractions observed

NEGATIVE

STREAMSED

22.98

kgs

4

grams

-2.0+0.25

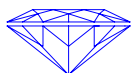
mm

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

	%	%	%		
OTHER MINERALS	+0.8	+0.4	+0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE		Tr	3%		Grey, yellow, bluish-yellow, platy subhedra, moderately worn, translucent, often as platy aggregates, also grey-blue rounded opaques.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	55%	10%		Red-brown, yellow-brown, dull, rounded.
GARNET					
GOLD					
GORCEIXITE			Tr		Rare. Red-brown, orange, amorphous, opaque.
HAEMATITE					
ILMENITE		35%	50%		Silvery-black, subhedral, moderately worn.
KYANITE					
LEUCOXENE		5%	30%		Brown, beige, cream, dull to more polished.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			Tr		Very rare. Pale peach, rounded, opaque.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		5%	5%		Black-brown, near spherical.
XENOTIME					
ZIRCON			2%		Orange, colourless, beige, broken euhedral grains with fine vesicular inclusions.

COMMENTS: Concentrate fully observed.

Observed by: B.G.
Date: Sept. 1998.



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 98-041.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354735

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm

NEGATIVE

STREAMSED
20.98 kgs
76.04 grams

Size fractions observed
Disc No

-2.0+0.25 mm
423

	%	%	%	
KEY MINERALS	+0.8	+0.4	+0.25	mm BRIEF DESCRIPTION
DIAMOND				
PYROPE				
CHROMITE/CR SPINEL			Tr	1+0.25, anhedral, smooth, worn, dull brownish-black surface.
CHROME DIOPSIDE				
PICROILMENITE				
PHLOGOPITE				
OTHER				

	%	%	%	
OTHER MINERALS	+0.8	+0.4	+0.25	mm BRIEF DESCRIPTION
AMPHIBOLE				
ANATASE			Tr	Rare. Grey, yellow-orange, worn subhedra, translucent.
ANDALUSITE			Tr	1+0.25, palest pink, thin sliver, worn, transparent.
BARITE			Tr	Very rare. Saccharoidal aggregates, cream-coloured, friable.
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	100%	95%	Red-brown, brown, dull, smooth.
GARNET				
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE		Tr	5%	Silvery-black, platy subhedra, moderately worn.
KYANITE				
LEUCOXENE			Tr	Very rare. Beige, grey-green, well polished and worn.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE				
PHOSPHATES				
PREHNITE				
PYROXENE			Tr	1+0.25, frosted khaki-brown fragment, moderately worn, translucent.
RUTILE				
SPHENE				
SPINEL				
STAUROLITE			Tr	1+0.25, orange-brown, translucent, well worn.
SULPHIDES				
TOURMALINE		Tr	Tr	Black-brown, near spherical, smooth reworked grains.
XENOTIME				
ZIRCON			Tr	Very rare. Colourless, yellow-orange.
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: -2.0+0.8 concentrate fully observed.

Observed by: L.F.

-0.8+0.25 concentrate magnetically separated.

Date: Sept. 1998

NM -0.8+0.25 fully obs.

M6/7 -0.8+0.25 fully obs.

M4/5 -0.8+0.25 fully obs.

M1/2/3 Scalp not observed.