



Detailed Heavy Mineral Analysis

Our Job No.: 08039
Disc No.: -

Sample No: 163036

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Sediment Head Weight: 9.28 kg
 Sample Type (as received): Sediment Wet Weight: kg
 Observed Sample Type: TBE Concentrate

Diamond

mm	Number of particles in each size fraction								Total particles	Description of these particles
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10		

Key Minerals

mm	Number of particles in each size fraction								Wear	Overall Morph. Group	Total particles	No of particles probed	PRIORITY based on Morphology only)	PRIORITY based on morphology and Probe)
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Other Minerals

mm	% Percentage of particles in each size fraction								Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Almandine			20	30	30					W					
Amphibole			Tr	Tr	5					MW					
Biotite				Tr	Tr					MW					
Epidote				Tr	Tr					W					
Fe Oxide/Hydroxide			50	15	10					W					
Gahnite				Tr	Tr					W					
Ilmenite			Tr	15	20					W					
Kyanite			10	20	20					MW					
Leucosene				Tr	Tr					WW					
Monazite				Tr	Tr					WW					
Muscovite				Tr	Tr					MW					
Rutile				Tr	Tr					WW					
Spessartine			20	20	15					W					
Staurolite				Tr	Tr					MW					
Tourmaline			Tr	Tr	Tr					W					
TOTAL	%	%	100%	100%	100%	%	%	%							



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Detailed Heavy Mineral Analysis

Our Job No.: 08039

Disc No.: -

Sample No: 163036

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

What Has Been Observed?

Final Conc Weight 1.6000001 g | Size Range -1.2+0.3mm

Weight Observed 1.6000001 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NotMag			All	All	All			

Comment about this sample:

Technician: LF

Date Observed: 29-Jul-08

Report Printed: 30/07/2008 11:40:22 AM



Detailed Heavy Mineral Analysis

Our Job No.: 08039
Disc No.: -

Sample No: 163037

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Sediment Head Weight: 7.84 kg
 Sample Type (as received): Sediment Wet Weight: kg
 Observed Sample Type: TBE Concentrate

Diamond

mm	Number of particles in each size fraction								Total particles	Description of these particles
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10		

Key Minerals

mm	Number of particles in each size fraction								Wear	Overall Morph. Group	Total particles	No of particles probed	PRIORITY based on Morphology only)	PRIORITY based on morphology and Probe)
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Other Minerals

mm	% Percentage of particles in each size fraction								Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Almandine			65	50	30					W					
Amphibole				5	10					W					
Biotite				Tr	Tr					MW					
Epidote			Tr	Tr	10					W					
Fe Oxide/Hydroxide			10	Tr	Tr					W					
Gahnite				Tr	Tr					WW					
Ilmenite			5	15	15					W					
Kyanite			Tr	10	15					MW					
Rutile				Tr	Tr					WW					
Spessartine			20	20	20					W					
Staurolite				Tr	Tr					W					
Tourmaline					Tr					WW					

TOTAL % % 100% 100% 100% % % %

What Has Been Observed?

Final Conc Weight: 2.26 g Size Range: -1.2+0.3 mm
 Weight Observed: 2.26 g

Technician: LF

Date Observed: 29-Jul-08

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Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NotMag			All	All	All			

Comment about this sample:



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Detailed Heavy Mineral Analysis

Our Job No.: 08039

Disc No.: -

Sample No: 163038

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Sediment Head Weight: 10.2 kg
 Sample Type (as received): Sediment Wet Weight: kg
 Observed Sample Type: TBE Concentrate

Diamond

mm	Number of particles in each size fraction								Total particles	Description of these particles
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10		

Key Minerals

mm	Number of particles in each size fraction								Wear	Overall Morph. Group	Total particles	No of particles probed	PRIORITY based on Morphology only)	PRIORITY based on morphology and Probe)
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Other Minerals

mm	% Percentage of particles in each size fraction								Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Al-Silicates					Tr					MW					
Almandine			30	50	50					W					
Amphibole			Tr	20	20					W					
Biotite				Tr	Tr					MW					
Epidote					5					WW					
Fe Oxide/Hydroxide			60	5	Tr					W					
Gahnite					Tr					WW					
Ilmenite				5	5					W					
Kyanite				10	10					MW					
Leucoxene			Tr	Tr	Tr					WW					
Monazite			Tr	Tr	Tr					WW					
Muscovite				Tr	Tr					MW					
Rutile					Tr					WW					
Spessartine			10	10	10					W					
Tourmaline				Tr	Tr					W					
Zircon				Tr	Tr					WW					

TOTAL % % 100% 100% 100% % % %



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Detailed Heavy Mineral Analysis

Our Job No.: 08039

Disc No.: -

Sample No: 163038

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

What Has Been Observed?

Final Conc Weight 5.6200001 g | Size Range -1.2+0.3mm

Weight Observed 5.6200001 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NotMag			All	All	All			

Comment about this sample:

Technician: LF

Date Observed: 29-Jul-08

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Detailed Heavy Mineral Analysis

Our Job No.: 08039
Disc No.: -

Sample No: 163039

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Sediment Head Weight: 11.48 kg
 Sample Type (as received): Sediment Wet Weight: kg
 Observed Sample Type: DMS Concentrate

Diamond

mm	Number of particles in each size fraction								Total particles	Description of these particles
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10		

Key Minerals

mm	Number of particles in each size fraction								Wear	Overall Morph. Group	Total particles	No of particles probed	PRIORITY based on Morphology only)	PRIORITY based on morphology and Probe)
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Other Minerals

mm	% Percentage of particles in each size fraction								Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Almandine			45	40	30						MW				
Amphibole			Tr	Tr	Tr						MW				
Barite				Tr							MW				
Biotite					Tr						W				
Epidote			Tr	Tr	Tr						MW				
Fe Oxide/Hydroxide			35	25	35						W				
Gahnite				Tr	Tr						W				
Ilmenite			Tr	Tr	15						MW				
Kyanite			Tr	Tr	Tr						W				
Muscovite					Tr						MW				
Orthopyroxene			Tr	Tr	Tr						MW				
Rutile					Tr						W				
Spessartine			20	35	20						MW				
Staurolite				Tr	Tr						MW				
Tourmaline				Tr	Tr						MW				
Zircon					Tr						W				
TOTAL		%	%	100%	100%	100%	%	%	%						



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Our Job No.: 08039

Disc No.: -

Sample No: 163039

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

What Has Been Observed?

Final Conc Weight: 12.42 g | Size Range: -1.2+0.3mm

Weight Observed: 12.42 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NotMag			All	All	All			

Comment about this sample:

Technician: BJG

Date Observed: 29-Jul-08

Report Printed: 30/07/2008 11:41:35 AM



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HEAVY MINERAL SERVICES

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Detailed Heavy Mineral Analysis

Our Job No.: 08039

Disc No.:

Sample No:

163039R

Overall Sample Assessment

Negative

Your Project Code:

Northern Territory

Sample Type (as collected): Rock

Head Weight 2.52 kg

Sample Type (as received): Rock

Wet Weight kg

Observed Sample Type: TBE Concentrate

Diamond

mm	Number of particles in each size fraction								Total particles	Description of these particles
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10		

Key Minerals

mm	Number of particles in each size fraction								Wear	Overall Morph. Group	Total particles	No of particles probed	PRIORITY based on Morphology only)	PRIORITY based on morphology and Probe)
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Other Minerals

mm	% Percentage of particles in each size fraction								Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Almandine			Tr	15	20					MW					
Amphibole			Tr	15	20					MW					
Barite			35	45	40					MW					
Biotite			Tr							MW					
Epidote				Tr	Tr					MW					
Fe Oxide/Hydroxide			65	20	10					MW					
Gahnite					Tr					MW					
Ilmenite					Tr					MW					
Kyanite				Tr	Tr					MW					
Orthopyroxene				Tr	Tr					MW					
Pyrite			Tr	Tr	Tr					MW					
Rock Fragments			Tr	Tr	Tr					MW					
Rutile					Tr					MW					
Spessartine			Tr	5	10					MW					
Tourmaline				Tr	Tr					W					
TOTAL	%	%	100%	100%	100%	%	%	%							



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Ph 61 8 9361 2596

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Detailed Heavy Mineral Analysis

Our Job No.: 08039

Disc No.:

Sample No: 163039R

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

What Has Been Observed?

Final Conc Weight 1.4300000 g | Size Range -1.2+0.3mm

Weight Observed 1.4300000 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NotMag			All	All	All			

Comment about this sample:

Technician: BJG

Date Observed: 29-Jul-08

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