



Ph 61 8 9361 2596
Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA31

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 19.68 kg
Wet Weight kg

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	Tr				MW					
Amphibole					Tr				W					
Biotite					Tr				W					
Fe Oxide/Hydroxide			100	100	100				W					
Gahnite					Tr				MW					
Ilmenite				Tr	Tr				MW					
Kyanite			Tr	Tr	Tr				MW					
Leucoxene				Tr	Tr				W					
Rutile				Tr	Tr				W					
Tourmaline			Tr	Tr	Tr				MW					
Zircon				Tr	Tr				MW					
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 22.810000 g Size Range -1.2+0.3mm
Weight Observed 22.810000 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: JED

Date Observed: 11-Oct-07

Report Printed: 25/10/2007 3:01:27 PM



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA32

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight: 22.74 kg
Wet Weight: kg

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	Tr	Tr				MW				
Amphibole					Tr	Tr				W				
Anatase						Tr				W				
Fe Oxide/Hydroxide				100	100	100				W				
Kyanite					Tr	Tr				W				
Phosphate					Tr	Tr				W				
Rutile						Tr				W				
Spessartine				Tr	Tr	Tr				MW				
Tourmaline					Tr	Tr				W				
Zircon						Tr				MW				
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight: 210.99 g | Size Range: -1.2+0.3mm
Weight Observed: 210.99 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NM			All	All	All			
M6/7			All	All	All			
M4/5			All	All	All			

Comment about this sample:

Technician: BJG

Date Observed: 11-Oct-07

Report Printed: 25/10/2007 3:01:49 PM



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: **CKA33**

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 24.76 kg
Wet Weight kg

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					MW				
Amphibole					Tr	Tr				MW				
Biotite					Tr					W				
Epidote					Tr					MW				
Fe Oxide/Hydroxide			100	100	100					W				
Ilmenite					Tr					W				
Kyanite				Tr	Tr					MW				
Leucoxene					Tr					W				
Muscovite				Tr	Tr					MW				
Phosphate					Tr					WW				
Rutile					Tr					MW				
Spessartine				Tr	Tr					MW				
Tourmaline				Tr	Tr					W				
Zircon				Tr	Tr					MW				
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 31.760000 g Size Range -1.2+0.3 mm
Weight Observed 31.760000 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NM			All	All	All			
M6/7			All	All	All			
M4/5			All	All	All			

Comment about this sample:

Technician: JED

Date Observed: 11-Oct-07

Report Printed: 25/10/2007 3:02:09 PM



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: **CKA34**

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 21.34 kg
Wet Weight kg

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	Tr				MW					
Barite				Tr	Tr				W					
Biotite					Tr				W					
Fe Oxide/Hydroxide			100	100	100				W					
Ilmenite					Tr				W					
Kyanite				Tr	Tr				MW					
Phosphate				Tr	Tr				WW					
Rutile					Tr				W					
Tourmaline				Tr	Tr				MW					
Zircon				Tr	Tr				MW					
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 37.190000 g Size Range -1.2+0.3mm
Weight Observed 37.190000 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NM			All	All	All			
M6/7			All	All	All			
M4/5			All	All	All			

Comment about this sample:

Technician: JED

Date Observed: 15-Oct-07

Report Printed: 25/10/2007 3:02:30 PM



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: **CKA35**

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 19.46 kg
Wet Weight kg

Diamond

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Total particles Description of these particles

Key Minerals

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Overall Morph. Group Total particles No of particles probed PRIORITY based on Morphology only PRIORITY based on morphology and Probe)

Other Minerals

% Percentage of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Wear Colour Angularity Lustre Transparency Form/Shape

Almandine			Tr	Tr	Tr				MW				
Barite				Tr	Tr				W				
Epidote					Tr				W				
Fe Oxide/Hydroxide			100	100	100				W				
Ilmenite					Tr				MW				
Kyanite				Tr	Tr				MW				
Leucoxene					Tr				W				
Rutile				Tr	Tr				MW				
Spessartine				Tr	Tr				MW				
Tourmaline				Tr	Tr				MW				
Zircon				Tr	Tr				W				
TOTAL	%	%	100%	100%	100%	%	%	%					

What Has Been Observed?

Final Conc Weight 85.570001 g Size Range -1.2+0.3mm
Weight Observed 85.570001 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+.8	+.4	+.3	+.25	+.20	+.10
NM			All	All	All			
M6/7			All	All	All			
M4/5			All	All	All			

Comment about this sample:

Technician: JED

Date Observed: 15-Oct-07

Report Printed: 25/10/2007 3:02:51 PM



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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: **CKA36**

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 21.12 kg
Wet Weight kg

Diamond

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Total particles Description of these particles

Key Minerals

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Wear Overall Morph. Group Total particles No of particles probed PRIORITY based on Morphology only PRIORITY based on morphology and Probe)

Other Minerals

% Percentage of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Wear Colour Angularity Lustre Transparency Form/Shape

Almandine			Tr	Tr	Tr				MW				
Epidote					Tr				W				
Fe Oxide/Hydroxide			100	100	100				W				
Kyanite					Tr				W				
Monazite					Tr				W				
Phosphate					Tr				W				
Rutile					Tr				W				
Spessartine			Tr	Tr	Tr				MW				
Tourmaline				Tr	Tr				W				
TOTAL	%	%	100%	100%	100%	%	%	%					

What Has Been Observed?

Final Conc Weight 55.580000 g Size Range -1.2+0.3 mm
Weight Observed 55.580000 g

Technician: BJB

Date Observed: 11-Oct-07

Report Printed: 25/10/2007 3:03:16 PM

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+.8	+.4	+.3	+.25	+.20	+.10
NM			All	All	All			
M6/7			All	All	All			
M4/5			All	All	All			

Comment about this sample:



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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: **CKA38**

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 20.76 kg
Wet Weight kg

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	Tr					MW				
Amphibole				Tr	Tr					MW				
Barite				Tr	Tr					W				
Fe Oxide/Hydroxide			100	100	100					W				
Kyanite				Tr	Tr					MW				
Leucoxene				Tr	Tr					W				
Muscovite					Tr					W				
Spessartine				Tr	Tr					MW				
Tourmaline				Tr	Tr					WW				
Zircon					Tr					WW				
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 22.08 g Size Range -1.2+0.3mm
Weight Observed 22.08 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: JED

Date Observed: 18-Oct-07

Report Printed: 25/10/2007 3:03:39 PM



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA39

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 20.38 kg
Wet Weight kg

Diamond

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Total particles Description of these particles

Key Minerals

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Overall Morph. Group Total particles No of particles probed PRIORITY based on Morphology only PRIORITY based on morphology and Probe)

Other Minerals

% Percentage of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Wear Colour Angularity Lustre Transparency Form/Shape

Almandine				Tr	Tr					MW					
Amphibole					Tr					MW					
Barite				Tr	Tr					W					
Biotite					Tr					W					
Clinopyroxene					Tr					MW					
Epidote					Tr					W					
Fe Oxide/Hydroxide			100	100	100					W					
Kyanite				Tr	Tr					MW					
Phosphate				Tr	Tr					WW					
Rutile				Tr	Tr					W					
Spessartine				Tr	Tr					MW					
Tourmaline			Tr	Tr	Tr					MW					
Zircon				Tr	Tr					W					
TOTAL	%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight 72.280001 g Size Range -1.2+0.3 mm
Weight Observed 72.280001 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+.8	+.4	+.3	+.25	+.20	+.10
NM			All	All	All			
M6/7			All	All	All			
M4/5			All	All	All			

Comment about this sample:

Technician: JED

Date Observed: 16-Oct-07

Report Printed: 25/10/2007 3:04:02 PM



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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA40

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight: 22.88 kg
Wet Weight: kg

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	Tr	Tr				MW					
Anatase					Tr				MW					
Barite				Tr	Tr				W					
Biotite					Tr				W					
Fe Oxide/Hydroxide			100	100	100				MW					
Ilmenite					Tr				W					
Kyanite					Tr				MW					
Muscovite					Tr				W					
Rutile					Tr				W					
Tourmaline					Tr				WW					
Zircon					Tr				W					
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight: 12.780000 g | Size Range: -1.2+0.3mm
Weight Observed: 12.780000 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NM			All	All	All			
M6/7			All	All	All			
M4/5			All	All	All			

Comment about this sample:

Technician: JED

Date Observed: 17-Oct-07

Report Printed: 25/10/2007 3:04:23 PM



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: **CKA41**

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 18.7 kg
Wet Weight kg

Diamond

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Total particles Description of these particles

Key Minerals

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Overall Morph. Group Total particles No of particles probed PRIORITY based on Morphology only PRIORITY based on morphology and Probe)

Other Minerals

% Percentage of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Wear Colour Angularity Lustre Transparency Form/Shape

Almandine				Tr	Tr					MW					
Biotite					Tr					MW					
Fe Oxide/Hydroxide			100	100	100					MW					
Ilmenite				Tr	Tr					W					
Kyanite				Tr	Tr					MW					
Muscovite					Tr					MW					
Tourmaline				Tr	Tr					W					
TOTAL	%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight 1.04 g Size Range -1.2+0.3 mm
Weight Observed 1.04 g

Magnetic Fractions vs Size Fraction

mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10
NotMag All All All

Comment about this sample:

Technician: JED

Date Observed: 11-Oct-07

Report Printed: 25/10/2007 3:04:44 PM



Ph 61 8 9361 2596
Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA43

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 10.64 kg
Wet Weight kg

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	Tr	Tr			MW					
Amphibole						Tr			MW					
Biotite						Tr			W					
Epidote					Tr	Tr			MW					
Fe Oxide/Hydroxide				100	100	100			W					
Ilmenite						Tr			W					
Kyanite					Tr	Tr			MW					
Monazite						Tr			WW					
Rutile						Tr			MW					
Spessartine					Tr	Tr			MW					
Staurolite				Tr	Tr	Tr			MW					
Tourmaline					Tr	Tr			MW					
Zircon					Tr	Tr			WW					
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 5.71 g Size Range -1.2+0.3 mm
Weight Observed 5.71 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: JED

Date Observed: 17-Oct-07

Report Printed: 25/10/2007 3:05:06 PM



Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA44

Overall Sample Assessment Negative

Your Project Code: Northern Territory

Sample Type (as collected):	Loam	Head Weight	23.26 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:	DMS Concentrate		

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

Key Minerals	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)
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Other Minerals	% Percentage of particles in each size fraction									Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						
Almandine					5	10				MW					
Amphibole				Tr	Tr	10				MW					
Biotite						Tr				W					
Epidote					Tr	Tr				MW					
Fe Oxide/Hydroxide				100	85	30				W					
Gahnite						Tr				W					
Ilmenite					Tr	10				MW					
Kyanite				Tr	5	30				MW					
Leucoxene					Tr	Tr				W					
Muscovite						Tr				W					
Rutile					Tr	Tr				W					
Spessartine					Tr	Tr				MW					
Staurolite						Tr				MW					
Tourmaline				Tr	5	10				W					
Zircon					Tr	Tr				MW					
TOTAL		%	%	100%	100%	100%	%	%	%						



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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA44

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

What Has Been Observed?

Final Conc Weight 1.89 g | Size Range -1.2+0.3 mm
Weight Observed 1.89 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: JED

Date Observed: 17-Oct-07

Report Printed: 25/10/2007 3:05:26 PM



Ph 61 8 9361 2596
Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: **CKA45**

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): **Loam**
Sample Type (as received): **Loam**
Observed Sample Type: **DMS Concentrate**

Head Weight **20.92** kg
Wet Weight kg

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	5	15					MW				
Al-Spinel					Tr					MW				
Biotite				Tr	Tr					W				
Epidote					Tr					W				
Fe Oxide/Hydroxide			100	90	70					MW				
Ilmenite				Tr	5					MW				
Kyanite			Tr	2	5					MW				
Leucoxene				Tr	Tr					W				
Rutile				Tr	Tr					MW				
Tourmaline			Tr	3	5					W				
Zircon				Tr	Tr					MW				
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight **6.8600000** g | Size Range **-1.2+0.3** mm
Weight Observed **6.8600000** 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: JED

Date Observed: 11-Oct-07

Report Printed: 25/10/2007 3:05:48 PM



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: **CKA46**

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 20.08 kg
Wet Weight kg

Diamond

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Total particles Description of these particles

Key Minerals

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Overall Morph. Group Total particles No of particles probed PRIORITY based on Morphology only PRIORITY based on morphology and Probe)

Other Minerals

% Percentage of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Wear Colour Angularity Lustre Transparency Form/Shape

Almandine			Tr	Tr	Tr				MW					
Amphibole				Tr	Tr				MW					
Fe Oxide/Hydroxide			100	100	100				W					
Ilmenite				Tr	Tr				MW					
Kyanite				Tr	Tr				MW					
Rutile				Tr	Tr				MW					
Spessartine				Tr	Tr				MW					
Tourmaline				Tr	Tr				WW					
Zircon					Tr				MW					
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 37.59 g Size Range -1.2+0.3 mm
Weight Observed 37.59 g

Technician: JED

Date Observed: 17-Oct-07

Report Printed: 25/10/2007 3:06:10 PM

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+.8	+.4	+.3	+.25	+.20	+.10
NM			All	All	All			
M6/7			All	All	All			
M4/5			All	All	All			

Comment about this sample:



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: **CKA47**

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 20.34 kg
Wet Weight kg

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	Tr	Tr				MW					
Barite					Tr				WW					
Fe Oxide/Hydroxide			100	100	100				W					
Ilmenite					Tr				MW					
Kyanite			Tr	Tr	Tr				MW					
Leucoxene					Tr				W					
Phosphate				Tr	Tr				WW					
Rutile					Tr				W					
Spessartine				Tr	Tr				MW					
Tourmaline				Tr	Tr				WW					
Zircon				Tr	Tr				MW					
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 36.84 g Size Range -1.2+0.3mm
Weight Observed 36.84 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NM			All	All	All			
M6/7			All	All	All			
M4/5			All	All	All			

Comment about this sample:

Technician: JED

Date Observed: 16-Oct-07

Report Printed: 25/10/2007 3:06:32 PM



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: **CKA48**

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 22.34 kg
Wet Weight kg

Diamond

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Total particles Description of these particles

Key Minerals

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Overall Morph. Group Total particles No of particles probed PRIORITY based on Morphology only PRIORITY based on morphology and Probe)

Other Minerals

% Percentage of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Wear Colour Angularity Lustre Transparency Form/Shape

Almandine				Tr	Tr				MW					
Biotite					Tr				W					
Epidote					Tr				MW					
Fe Oxide/Hydroxide			100	100	100				W					
Ilmenite				Tr	Tr				W					
Kyanite				Tr	Tr				MW					
Rutile					Tr				MW					
Tourmaline				Tr	Tr				MW					
Zircon				Tr	Tr				W					
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 77.800000 g Size Range -1.2+0.3 mm
Weight Observed 77.800000 g

Technician: JED

Date Observed: 16-Oct-09

Report Printed: 25/10/2007 3:06:53 PM

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+.8	+.4	+.3	+25	+20	+10
NM			All	All	All			
M6/7			All	All	All			
M4/5			All	All	All			

Comment about this sample:



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: **CKA50**

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 19.42 kg
Wet Weight kg

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			5	Tr	Tr				MW					
Biotite				Tr	Tr				W					
Epidote				Tr	Tr				W					
Fe Oxide/Hydroxide			90	50	50				W					
Gahnite				Tr	Tr				W					
Ilmenite				Tr	Tr				W					
Kyanite			Tr	50	50				W					
Leucoxene				Tr	Tr				W					
Rutile				Tr	Tr				W					
Spessartine				Tr	Tr				MW					
Tourmaline			5	Tr	Tr				W					
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 1.3900001 g Size Range -1.2+0.3mm
Weight Observed 1.3900001 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: 11-Oct-07

Report Printed: 25/10/2007 3:07:14 PM



Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA51

Overall Sample Assessment Negative

Your Project Code: Northern Territory

Sample Type (as collected):	Loam	Head Weight	24.16 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:	DMS Concentrate		

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

Key Minerals	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)
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Other Minerals	% Percentage of particles in each size fraction									Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						
Almandine				10	10	Tr				MW					
Amphibole					Tr	Tr				MW					
Biotite						Tr				W					
Epidote					Tr	Tr				MW					
Fe Oxide/Hydroxide				60	20	Tr				W					
Gahnite					Tr	Tr				MW					
Ilmenite					10	20				W					
Kyanite				15	40	60				W					
Leucoxene					Tr	Tr				W					
Muscovite					Tr	Tr				W					
Orthopyroxene					Tr	Tr				W					
Pyrite				Tr						W					
Rutile					Tr	Tr				MW					
Spessartine					Tr	Tr				MW					
Staurolite					Tr	Tr				MW					
Tourmaline				15	20	20				W					
Zircon					Tr	Tr				W					
TOTAL		%	%	100%	100%	100%	%	%	%						



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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No:

CKA51

Overall Sample Assessment

Negative

Your Project Code:

Northern Territory

What Has Been Observed?

Final Conc Weight 5.1900000 g | Size Range -1.2+0.3 mm
Weight Observed 5.1900000 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: JED

Date Observed: 17-Oct-07

Report Printed: 25/10/2007 3:07:34 PM



Ph 61 8 9361 2596
Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA52

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 21.52 kg
Wet Weight kg

Diamond

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10	Total particles	Description of these particles
----	------	------	------	------	------	-------	-------	-------	-----------------	--------------------------------

Key Minerals

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

Other Minerals

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10	Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
----	------	------	------	------	------	-------	-------	-------	------	--------	------------	--------	--------------	------------

Almandine			Tr	Tr	Tr				MW					
Anatase					Tr				W					
Epidote				Tr	Tr				W					
Fe Oxide/Hydroxide			70	20	5				W					
Gahnite				Tr	Tr				MW					
Ilmenite				20	35				MW					
Kyanite			10	50	50				MW					
Leucoxene					Tr				W					
Orthopyroxene				Tr	Tr				W					
Rutile				Tr	Tr				W					
Spessartine			Tr	Tr	Tr				MW					
Tourmaline			20	10	10				W					
Zircon					Tr				W					
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 2.9800000 g Size Range -1.2+0.3 mm
Weight Observed 2.9800000 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: JED

Date Observed: 17-Oct-07

Report Printed: 25/10/2007 3:07:55 PM



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA53

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight: 21.88 kg
Wet Weight: kg

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	Tr				MW					
Al-Spinel				Tr	Tr				MW					
Epidote				Tr	Tr				W					
Fe Oxide/Hydroxide			90	20	Tr				W					
Gahnite				Tr	Tr				MW					
Ilmenite			10	15	40				MW					
Kyanite			Tr	50	50				MW					
Leucoxene					Tr				W					
Rutile				Tr	Tr				MW					
Tourmaline			Tr	15	10				W					
Zircon				Tr	Tr				W					
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight: 2.9000001 g | Size Range: -1.2+0.3mm
Weight Observed: 2.9000001 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: JED

Date Observed: 17-Oct-07

Report Printed: 25/10/2007 3:08:17 PM



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: **CKA54**

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 20.74 kg
Wet Weight kg

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	Tr					MW				
Amphibole				Tr	Tr					MW				
Epidote				Tr	Tr					MW				
Fe Oxide/Hydroxide			100	45	40					W				
Gahnite				Tr	Tr					W				
Ilmenite				10	20					W				
Kyanite			Tr	45	40					MW				
Leucoxene				Tr	Tr					W				
Rutile				Tr	Tr					W				
Spessartine				Tr	Tr					MW				
Staurolite				Tr	Tr					W				
Tourmaline			Tr	Tr	Tr					MW				
Zircon					Tr					W				
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 3.2800000 g Size Range -1.2+0.3 mm
Weight Observed 3.2800000 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: 17-Oct-07

Report Printed: 25/10/2007 3:08:39 PM



Ph 61 8 9361 2596
Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: **CKA55**

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 19.14 kg
Wet Weight kg

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-Spinel					Tr					MW				
Barite				Tr	Tr					W				
Epidote				Tr	Tr					W				
Fe Oxide/Hydroxide			100	30	Tr					W				
Gahnite				Tr	Tr					W				
Ilmenite				30	45					MW				
Kyanite			Tr	30	45					MW				
Leucoxene			Tr	Tr	Tr					W				
Rutile				Tr	Tr					W				
Staurolite				Tr	Tr					MW				
Tourmaline			Tr	10	10					MW				
Zircon				Tr	Tr					MW				
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 5.84 g Size Range -1.2+0.3 mm
Weight Observed 5.84 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: JED

Date Observed: 17-Oct-07

Report Printed: 25/10/2007 3:09:00 PM



Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA56

Overall Sample Assessment Negative

Your Project Code: Northern Territory

Sample Type (as collected):	Loam	Head Weight	26.16 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:	DMS Concentrate		

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

Key Minerals	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)
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Other Minerals	% Percentage of particles in each size fraction									Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						
Almandine				40	20	15				MW					
Amphibole				Tr	Tr	Tr				W					
Biotite					Tr	Tr				W					
Epidote				Tr	Tr	Tr				MW					
Fe Oxide/Hydroxide				10	20	10				W					
Gahnite					Tr	Tr				W					
Ilmenite					15	30				W					
Kyanite				10	20	25				MW					
Leucoxene					Tr	Tr				W					
Monazite					Tr	Tr				W					
Muscovite					Tr	Tr				MW					
Rutile					Tr	Tr				W					
Spessartine				40	25	20				MW					
Staurolite				Tr	Tr	Tr				MW					
Tourmaline						Tr				W					
TOTAL		%	%	100%	100%	100%	%	%	%						



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA56

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

What Has Been Observed?

Final Conc Weight 10.91 g | Size Range -1.2+0.3 mm
Weight Observed 10.91 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: 18-Oct-07

Report Printed: 25/10/2007 3:45:59 PM



Ph 61 8 9361 2596
Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA57

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Loam
Sample Type (as received): Loam
Observed Sample Type: DMS Concentrate

Head Weight 22.52 kg
Wet Weight kg

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			60	50	10					MW				
Amphibole			Tr	5	Tr					MW				
Biotite					Tr					W				
Epidote				Tr	Tr					W				
Fe Oxide/Hydroxide			40	10	Tr					W				
Gahnite				Tr	Tr					MW				
Ilmenite			Tr	20	20					MW				
Kyanite			Tr	15	50					MW				
Leucosene			Tr	Tr	Tr					W				
Orthopyroxene			Tr	Tr	Tr					MW				
Rutile				Tr	Tr					W				
Spessartine				Tr	Tr					MW				
Tourmaline			Tr	Tr	20					MW				
Zircon				Tr	Tr					W				
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 13.270000 g Size Range -1.2+0.3 mm
Weight Observed 13.270000 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: JED

Date Observed: 18-Oct-07

Report Printed: 25/10/2007 3:09:44 PM



Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA58

Overall Sample Assessment Negative

Your Project Code: Northern Territory

Sample Type (as collected):	Loam	Head Weight	19.6 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:	DMS Concentrate		

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

Key Minerals	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)
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Other Minerals	% Percentage of particles in each size fraction									Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						
Almandine				15	30	30				MW					
Amphibole				Tr	Tr	Tr				MW					
Biotite						Tr				W					
Epidote				Tr	Tr	Tr				W					
Fe Oxide/Hydroxide				75	20	10				W					
Gahnite					Tr	Tr				MW					
Ilmenite					20	30				W					
Kyanite				Tr	20	30				MW					
Leucoxene					Tr	Tr				W					
Monazite					Tr	Tr				WW					
Pyrite						Tr				W					
Rutile					Tr	Tr				W					
Spessartine				5	5	Tr				MW					
Staurolite					Tr	Tr				MW					
Tourmaline				5	5	Tr				MW					
Zircon						Tr				WW					
TOTAL		%	%	100%	100%	100%	%	%	%						



Ph 61 8 9361 2596
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Detailed Heavy Mineral Analysis

Our Job No.: 07112
Disc No.: -

Sample No: CKA58

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

What Has Been Observed?

Final Conc Weight 4.5600001 g | Size Range -1.2+0.3 mm
Weight Observed 4.5600001 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: JED

Date Observed: 18-Oct-07

Report Printed: 25/10/2007 3:10:06 PM