



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA01**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected):	Loam	Head Weight	21.62 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:			

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	pale pink orange-pink, stained	subangular	dull to glassy	transparent	etched, blocky, small black inclusions
Amphibole					Tr	Tr					MW	black-green	subangular to subrounded	dull	translucent to opaque	etched striate laths
Barite					Tr	Tr					MF	cream	subangular	matte	opaque	granular
Biotite					Tr	Tr					W	coppery brown	rounded	dull to pearly	translucent	flakes, rare
Fe Oxide/Hydroxide			100	100	100						W	red-brown, brick red	subrounded	dull to polished	opaque	irregular, knobby
Ilmenite					Tr	Tr					W	silvery-black	subrounded	dull to submetallic	opaque	rare, smooth, flattened subhedra
Kyanite					Tr	Tr					MW	colourless, stained	subangular to subrounded	dull	transparent	thin blades
Martite					Tr	Tr					MW	red-brown	subangular	polished	opaque	broken octahedra
Pyrite					Tr						MF	farnished brown	angular	submetallic	opaque	multiple twinned cubes.
Rutile						Tr					WW	silvery-black with reddish tints	rounded	submetallic	opaque	rolled, pitted.
Spessartine						Tr	Tr				MW	pale orange	subangular	dull to greasy	transparent	irregular, smooth to etched
Tourmaline					Tr	Tr					W	black-brown	subrounded to rounded	glassy to dull	translucent	irregular, many etched
TOTAL	%	%	100%	100%	100%	%	%	%								

What Has Been Observed?

Final Conc Weight: 2.8999999 g | Size Range: -1.2+0.3 mm
Weight Observed: 2.8999999 g

Technician: LF

Date Observed: 24-Sep-07

Report Printed: 17/10/2007 11:55:16 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA02**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Head Weight: kg
 Sample Type (as received): Wet Weight: kg
 Observed Sample Type:

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			80	70	50						MW				
Amphibole			10	20	30						W				
Biotite				Tr	Tr						W				
Epidote				Tr	Tr						W				
Fe Oxide/Hydroxide			10	Tr	10						W				
Ilmenite				10	5						MW				
Kyanite			Tr	Tr	5						W				
Leucoxene					Tr						WW				
Phosphate				Tr	Tr						WW				
Rutile					Tr						WW				
Spessartine					Tr						MW				
Staurolite					Tr						WW				
Tourmaline				Tr	Tr						W				
Zircon					Tr						WW	mottled colourless/orange			
TOTAL		%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight: 3.9599999 g | Size Range:
 Weight Observed: 3.9599999 g

Technician: LF

Date Observed: 24-Sep-07

Report Printed: 17/10/2007 11:55:36 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No:	CKA03
Overall Sample Assessment	Negative
Your Project Code:	Northern Territory

Sample Type (as collected):	Loam	Head Weight	31.54 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:			

Diamond Number of particles in each size fraction Total particles Description of these particles

Key Minerals Number of particles in each size fraction 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 Wear Colour Angularity Lustre Transparency Form/Shape

	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				15	70	75				MW	pale pink, orange-pink	rounded	glassy	transparent to translucent	irregular
Amphibole				Tr	15	15				MW	bottle green, black	rounded	dull	translucent to opaque	elongate
Biotite					Tr	Tr				MW	brown	rounded	dull	opaque	flaky
Epidote				Tr	Tr	Tr				MW	yellow-green	rounded	glassy	translucent	irregular
Fe Oxide/Hydroxide				85	15	5				W	red-brown, black	rounded	dull	opaque	irregular
Gahnite						Tr				W	sea green, black	rounded	dull	translucent	eu/subhedral
Ilmenite					Tr	5				MW	silvery-black	subrounded to rounded	metallic	opaque	irregular
Kyanite				Tr	Tr	Tr				W	colourless	rounded	glassy	transparent	bladed
Rutile						Tr				W	cherry red	rounded	submetallic	opaque	irregular
Spessartine				Tr	Tr	Tr				MW	orange, orange-pink	subrounded	glassy	transparent	irregular
Tourmaline					Tr	Tr				W	brown	rounded	dull	translucent to opaque	near spherical
TOTAL		%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight	7.8199998 g	Size Range	-1.2+0.3mm
Weight Observed	7.8199998 g		

Technician: BJB

Date Observed: 28-Sep-07

Report Printed: 17/10/2007 11:55:58 AM

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:



DIATECH
HEAVY MINERAL SERVICES
Ph 61 8 9361 2596
Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA04**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected):	Loam	Head Weight	31.2 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:			

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						

Chromite/Cr-Spinel					1					W	B1	1	B	C
greyish-black, well rounded, anhedral, granular														

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			50	70	60					MW					
Amphibole			Tr	10	Tr					MW					
Biotite					Tr					W					
Clinopyroxene					Tr					W	palest green	dull	transparent	irregular	
Epidote			Tr	Tr	Tr					W					
Fe Oxide/Hydroxide			50	20	35					W					
Gahnite				Tr	Tr					W					
Ilmenite				Tr	5					MW					
Kyanite			Tr	Tr	Tr					W					
Phosphate			Tr	Tr	Tr					W	orange-brown				
Rutile				Tr	Tr					MW					
Spessartine			Tr	Tr	Tr					MW					
Tourmaline			Tr	Tr	Tr					W					
Zircon					Tr					MW	colourless	glassy	transparent	subhedral	
TOTAL	%	%	100%	100%	100%	%	%	%							



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

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Detailed Heavy Mineral Analysis

Our Job No.: 07111

Disc No.: -

Sample No:

CKA04

Overall Sample Assessment

Negative

Your Project Code:

Northern Territory

Technician:

BJG

Date Observed:

28-Sep-07

Report Printed:

17/10/2007 11:56:19 AM

What Has Been Observed?

Final Conc Weight g | Size Range

Weight Observed 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:



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HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

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Detailed Heavy Mineral Analysis

Our Job No.: 07111

Disc No.: -

Sample No:

CKA05

Overall Sample Assessment

Negative

Your Project Code:

Northern Territory

Sample Type (as collected): Loam

Head Weight 31.58 kg

Sample Type (as received): Loam

Wet Weight kg

Observed Sample Type:

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							W
Barite					Tr	Tr									MW
Biotite					Tr	Tr									W
Chlorite						Tr									W
Clinopyroxene						Tr									W
Epidote					Tr	Tr									W
Fe Oxide/Hydroxide				100	100	100									W
Gahnite					Tr	Tr									W
Kyanite					Tr	Tr									W
Leucoxene						Tr									W
Phosphate					Tr	Tr									W
Rutile						Tr									W
Spessartine						Tr									MW
Tourmaline					Tr	Tr									W
TOTAL		%	%	100%	100%	100%	%	%	%						



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

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Detailed Heavy Mineral Analysis

Our Job No.: 07111

Disc No.: -

Sample No:

CKA05

Overall Sample Assessment

Negative

Your Project Code:

Northern Territory

What Has Been Observed?

Final Conc Weight 26.3 g | Size Range -1.2+0.3mm

Weight Observed 26.3 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: BJJ

Date Observed: 03-Oct-07

Report Printed: 17/10/2007 11:56:40 AM



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA06**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected):	Loam	Head Weight	21.18 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:			

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					
Clinopyroxene					Tr					W					
Epidote			Tr	Tr	Tr					W					
Fe Oxide/Hydroxide			100	100	100					W					
Spessartine			Tr	Tr	Tr					MW					
Zircon					Tr					W					
TOTAL	%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight: 192.37 g | Size Range: -1.2+0.3 mm
Weight Observed: 192.37 g

Technician: BJJ

Date Observed: 02-Oct-07

Report Printed: 17/10/2007 11:57:00 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA07**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Head Weight: kg
 Sample Type (as received): Wet Weight: kg
 Observed Sample Type:

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			15	30	15						MW				
Amphibole			Tr	Tr	Tr						W				
Biotite					Tr						W				
Epidote				Tr	Tr						W				
Fe Oxide/Hydroxide			70	40	50						W				
Gahnite			Tr	Tr	Tr						W				
Ilmenite				Tr	Tr						W				
Kyanite			15	30	35						W				
Rutile				Tr	Tr						W				
Spessartine			Tr	Tr	Tr						MW				
Tourmaline				Tr	Tr						W				
TOTAL	%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight: g | Size Range:
 Weight Observed: g

Technician: BJK

Date Observed: 04-Oct-07

Report Printed: 17/10/2007 11:57:20 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA08**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected):	Loam	Head Weight	24.92 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:			

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			50	35	20						MW				
Amphibole			Tr	Tr	Tr						W				
Biotite					Tr						W				
Epidote				Tr	Tr						W				
Fe Oxide/Hydroxide			50	50	50						W				
Ilmenite					Tr						W				
Kyanite			Tr	15	30						W				
Rutile				Tr	Tr						W				
Spessartine			Tr	Tr	Tr						MW				
Tourmaline			Tr	Tr	Tr						W				
TOTAL		%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight	4.3900001 g	Size Range	-1.2+0.3mm
Weight Observed	4.3900001 g		

Technician: BJK

Date Observed: 04-Oct-07

Report Printed: 17/10/2007 11:57:42 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA09**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected):	Loam	Head Weight	20.86 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:			

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			50	50	35					MW					
Amphibole			Tr	Tr	Tr					W					
Biotite				Tr	Tr					W					
Epidote				Tr	Tr					W					
Fe Oxide/Hydroxide			50	50	50					W					
Ilmenite				Tr	Tr					W					
Kyanite			Tr	Tr	15					W					
Rutile				Tr	Tr					W					
Spessartine			Tr	Tr	Tr					MW					
TOTAL	%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight: 2.4600000 g | Size Range: -1.2+0.3mm
 Weight Observed: 2.4600000 g

Technician: BJB
Date Observed: 04-Oct-07

Report Printed: 17/10/2007 11:58:02 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA10**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Head Weight: kg
 Sample Type (as received): Wet Weight: kg
 Observed Sample Type:

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			40	40	15						MW				
Amphibole			Tr	Tr	Tr						W				
Epidote			Tr	Tr	Tr						W				
Fe Oxide/Hydroxide			60	30	35						W				
Gahnite				Tr	Tr						W				
Ilmenite				Tr	Tr						W				
Kyanite				30	50						W				
Spessartine			Tr	Tr	Tr						MW				
Tourmaline				Tr	Tr						W				
TOTAL		%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight: g | Size Range:
 Weight Observed: g

Technician: BJB

Date Observed: 05-Oct-07

Report Printed: 17/10/2007 11:58:23 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA11**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected):	Loam	Head Weight	22.14 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:			

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			10	Tr	Tr						MW				
Epidote				Tr	Tr						W				
Fe Oxide/Hydroxide			80	50	40						W				
Gahnite				Tr	Tr						MW				
Ilmenite				Tr	Tr						W				
Kyanite			10	50	60						W				
Leucosene			Tr	Tr	Tr						W				
Rutile				Tr	Tr						W				
Spessartine			Tr	Tr	Tr						MW				
Tourmaline			Tr	Tr	Tr						W				
TOTAL		%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight	3.97 g	Size Range	-1.2+0.3mm
Weight Observed	3.97 g		

Technician: BJB

Date Observed: 05-Oct-07

Report Printed: 17/10/2007 11:58:43 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA12**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Head Weight: kg
 Sample Type (as received): Wet Weight: kg
 Observed Sample Type:

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			30	35	20					MW					
Amphibole			Tr	Tr	Tr					W					
Epidote				Tr	Tr					W					
Fe Oxide/Hydroxide			70	35	50					W					
Gahnite				Tr	Tr					W					
Ilmenite				Tr	Tr					W					
Kyanite			Tr	30	30					W					
Leucoxene				Tr	Tr					W					
Orthopyroxene				Tr						MW	beige	rounded	dull	translucent	elongate
Rutile				Tr	Tr					W					
Spessartine				Tr	Tr					MW					
Tourmaline				Tr	Tr					MW					

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

What Has Been Observed?

Final Conc Weight: g Size Range: mm
 Weight Observed: g

Technician: BJK

Date Observed: 09-Oct-07

Report Printed: 17/10/2007 11:59:05 AM

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.: 07111
Disc No.: -

Sample No: **CKA13**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Head Weight: kg
 Sample Type (as received): Wet Weight: kg
 Observed Sample Type:

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
Epidote					Tr	Tr									W
Fe Oxide/Hydroxide				90	30	40									W
Gahnite					Tr	Tr									W
Ilmenite					Tr	Tr									W
Kyanite				5	70	60									W
Spessartine					Tr	Tr									MW
Tourmaline				5	Tr	Tr									W
TOTAL	%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight: g | Size Range:
 Weight Observed: 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: BJJ

Date Observed: 09-Oct-07

Report Printed: 17/10/2007 11:59:25 AM



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA16**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected):	Loam	Head Weight	21.72 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:			

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			50	35	30						MW				
Fe Oxide/Hydroxide			50	40	40						W				
Gahnite				Tr	Tr						MW				
Ilmenite				Tr	Tr						W				
Kyanite				25	30						W				
Spessartine			Tr	Tr	Tr						MW				
Tourmaline			Tr	Tr	Tr						W				
Zircon				Tr	Tr						W				
TOTAL	%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight: 5.3199999 g | Size Range: -1.2+0.3mm
 Weight Observed: 5.3199999 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: BJB

Date Observed: 09-Oct-07

Report Printed: 17/10/2007 11:59:47 AM



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA17**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Head Weight: kg
 Sample Type (as received): Wet Weight: kg
 Observed Sample Type:

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			50	40	15					MW					
Amphibole			Tr	Tr	Tr					W					
Biotite				Tr	Tr					W					
Epidote					Tr					W					
Fe Oxide/Hydroxide			50	40	50					W					
Gahnite				Tr	Tr					W					
Ilmenite					Tr					W					
Kyanite			Tr	20	35					W					
Rutile					Tr					W					
Spessartine			Tr	Tr	Tr					MW					
Tourmaline				Tr	Tr					W					
TOTAL	%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight: 4.1499999 g | Size Range: -1.2+0.3mm
 Weight Observed: 4.1499999 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: BJB

Date Observed: 10-Oct-07

Report Printed: 17/10/2007 12:00:09 PM



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Detailed Heavy Mineral Analysis

Our Job No.: 07111

Disc No.: -

Sample No:

CKA18

Overall Sample Assessment

Negative

Your Project Code:

Northern Territory

Sample Type (as collected): Loam

Head Weight 21.14 kg

Sample Type (as received): Loam

Wet Weight kg

Observed Sample Type:

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			75	55	45				MW						
Amphibole			Tr	Tr	Tr				W						
Epidote			5	15	10				W						
Fe Oxide/Hydroxide			10	30	35				W						
Gahnite					Tr				W						
Ilmenite				Tr	Tr				W						
Kyanite			Tr	Tr	10				W						
Rock Fragments			10	Tr	Tr				W						
Zircon					Tr				W						
TOTAL	%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight 3.5300000 g | Size Range -1.2+0.3mm

Weight Observed 3.5300000 g

Technician: BJB

Date Observed: 10-Oct-07

Report Printed: 17/10/2007 12:00:30 PM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No:	CKA21
Overall Sample Assessment	Negative
Your Project Code:	Northern Territory

Sample Type (as collected):	Loam	Head Weight	21.74 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:			

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

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

What Has Been Observed?

Final Conc Weight	185.78000 g	Size Range	-1.2+0.3mm
Weight Observed	185.78000 g		

Technician: JED

Date Observed: 09-Oct-07

Report Printed: 17/10/2007 12:00:50 PM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA22**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected):	Loam	Head Weight	24.42 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:			

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

What Has Been Observed?

Final Conc Weight: 65.389999 g | Size Range: -1.2+0.3mm
Weight Observed: 65.389999 g

Technician: BJB
Date Observed: 05-Oct-07

Report Printed: 17/10/2007 12:01:11 PM

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:



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Detailed Heavy Mineral Analysis

Our Job No.: 07111

Disc No.: -

Sample No:

CKA23

Overall Sample Assessment

Negative

Your Project Code:

Northern Territory

Sample Type (as collected): Loam

Head Weight 22.1 kg

Sample Type (as received): Loam

Wet Weight kg

Observed Sample Type:

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									
Fe Oxide/Hydroxide			100	100	100									
Ilmenite					Tr									
TOTAL	%	%	100%	100%	100%	%	%	%						

Almandine					Tr				W					
Fe Oxide/Hydroxide			100	100	100				W					
Ilmenite					Tr				W					
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 71.43 g | Size Range -1.2+0.3mm

Weight Observed 71.43 g

Technician: BJK

Date Observed: 05-Oct-07

Report Printed: 17/10/2007 12:01:32 PM

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:



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Detailed Heavy Mineral Analysis

Our Job No.: 07111

Disc No.: -

Sample No:

CKA24

Overall Sample Assessment

Negative

Your Project Code:

Northern Territory

Sample Type (as collected): Loam

Head Weight 23.46 kg

Sample Type (as received): Loam

Wet Weight kg

Observed Sample Type:

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				W					
Fe Oxide/Hydroxide			100	100	100				W					
Kyanite				Tr	Tr				W					
Rutile					Tr				W					
Staurolite				Tr	Tr				MW	orange-brown	subrounded	glassy	transparent	black inclusions
Tourmaline				Tr	Tr				W					
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 47.229999 g | Size Range -1.2+0.3 mm

Weight Observed 47.229999 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: BJB

Date Observed: 10-Oct-07

Report Printed: 17/10/2007 12:01:54 PM



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No:	CKA26
Overall Sample Assessment	Negative
Your Project Code:	Northern Territory

Sample Type (as collected):	Loam	Head Weight	25.52 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:			

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	Tr									W
Epidote						Tr									W
Fe Oxide/Hydroxide				100	100	100									W
Gahnite						Tr									MW
Ilmenite					Tr	Tr									W
Kyanite				Tr	Tr	Tr									MW
Leucoxene					Tr	Tr									W
Phosphate					Tr	Tr									WW
Rutile					Tr	Tr									W
Staurolite				Tr	Tr	Tr									MW
Tourmaline					Tr	Tr									MW
Zircon					Tr	Tr									MW
TOTAL		%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight	40.720000 g	Size Range	-1.2+0.3mm
Weight Observed	40.720000 g		

Technician: JED

Date Observed: 10-Sep-07

Report Printed: 17/10/2007 12:02:14 PM

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:



DIATECH
HEAVY MINERAL SERVICES

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Detailed Heavy Mineral Analysis

Our Job No.: 07111

Disc No.: -

Sample No:

CKA27

Overall Sample Assessment

Negative

Your Project Code:

Northern Territory

Sample Type (as collected): Loam

Head Weight 19.94 kg

Sample Type (as received): Loam

Wet Weight kg

Observed Sample Type:

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						

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

What Has Been Observed?

Final Conc Weight 97.489997 g | Size Range -1.2+0.3 mm

Weight Observed 97.489997 g

Technician: JED

Date Observed: 11-Oct-07

Report Printed: 17/10/2007 12:02:34 PM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No:	CKA28
Overall Sample Assessment	Negative
Your Project Code:	Northern Territory

Sample Type (as collected):	Loam	Head Weight	20.8 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:			

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

	% 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						
Almandine				Tr	Tr	5				MW				
Amphibole					Tr	5				MW				
Biotite						Tr				W				
Epidote					Tr	Tr				MW				
Fe Oxide/Hydroxide			100	100	85					W				
Gahnite					Tr					MW				
Ilmenite					Tr	5				W				
Kyanite					Tr	Tr				MW				
Leucosene					Tr	Tr				W				
Rutile					Tr	Tr				W				
Spessartine				Tr	Tr	Tr				MW				
Tourmaline				Tr	Tr	Tr				WW				
Zircon						Tr				W				
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight	17.040000 g	Size Range	-1.2+0.3mm
Weight Observed	17.040000 g		

Technician: JED
Date Observed: 08-Oct-07
Report Printed: 17/10/2007 12:02:56 PM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 07111
Disc No.: -

Sample No: **CKA29**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected):	Loam	Head Weight	20.92 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:			

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
Al-Spinel						Tr									MW
Amphibole						Tr									MW
Anatase						Tr									W
Barite						Tr									W
Biotite						Tr									W
Fe Oxide/Hydroxide				100	100	100									W
Gahnite						Tr									MW
Ilmenite					Tr	Tr									W
Kyanite					Tr	Tr									MW
Leucoxene						Tr									MW
Muscovite					Tr	Tr									W
Rutile					Tr	Tr									MW
Spessartine				Tr	Tr	Tr									MW
Tourmaline					Tr	Tr									W
Zircon					Tr	Tr									MW

TOTAL	%	%	100%	100%	100%	%	%	%							
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DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 07111

Disc No.: -

Sample No:

CKA29

Overall Sample Assessment

Negative

Your Project Code:

Northern Territory

What Has Been Observed?

Final Conc Weight 32.2 g | Size Range -1.2+0.3mm

Weight Observed 32.2 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: 10-Oct-07

Report Printed: 17/10/2007 12:03:17 PM



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 07111

Disc No.: -

Sample No: **CKA30**

Overall Sample Assessment: **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Head Weight: kg
 Sample Type (as received): Wet Weight: kg
 Observed Sample Type:

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

What Has Been Observed?

Final Conc Weight: g | Size Range:
 Weight Observed: 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: 09-Oct-07

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