DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 05084
Disc No.: -

Sample No: 159869

Overall Sample Assessment: **Negative**

Your Project Code: Cox Arnold NT

Sample Type (as collected):	Loam	Head Weight	48.6 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:	DMS Concentrate		

Diamond

mm	+1.2	+1.0	+.8	+.4	+.3	+.25	+.20	+.10	Total particles	Description of these particles

Number of particles in each size fraction

Key Minerals

mm	+1.2	+1.0	+.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)

Number of particles in each size fraction

Other Minerals

% Percentage of particles in each size fraction

mm	+1.2	+1.0	+.8	+.4	+.3	+.25	+.20	+.10	Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
Anatase					Tr				W	grey-blue	subrounded	greasy	translucent	irregular
Fe Oxide/Hydroxide			100	100	100				W	mustard, brown	subangular to rounded	polished	opaque	irregular to pisolitic.
Tourmaline					Tr				WW	black-brown	rounded	frosted	translucent	near spherical.
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight	0.17	g	Size Range	-1.2+0.3	mm
Weight Observed	0.17	g			

Technician: LF
Date Observed: 14-Dec-05
Report Printed: 12/01/2006 10:03:28 AM

Magnetic Fractions vs Size Fraction

mm	+1.2	+1.0	+.8	+.4	+.3	+.25	+.20	+.10
NotMag			All	All	All			

Comment about this sample:

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Detailed Heavy Mineral Analysis

Our Job No.: 05084
Disc No.: -

Sample No: 159870
Overall Sample Assessment: **Unresolved**
Your Project Code: Cox Arnold NT

Sample Type (as collected):	Loam	Head Weight	40.44 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:	DMS Concentrate		

Diamond

mm	+1.2	+1.0	+.8	+.4	+.3	+.25	+.20	+.10	Total particles	Description of these particles

Key Minerals

	Number of particles in each size fraction													
mm	+1.2	+1.0	+.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)
Chromite/Cr-Spinel					1				MW	b1	1		B	B
black, smooth irregular grain, granular fracture.														

Other Minerals

	% Percentage of particles in each size fraction													
mm	+1.2	+1.0	+.8	+.4	+.3	+.25	+.20	+.10	Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
Anatase					Tr				MW	grey-blue	subangular	submetallic	opaque	tabular
Barite					Tr				MW	white		frosted	translucent	granular.
Fe Oxide/Hydroxide			100	100	100				W	brown, tan	rounded to angular	dull	opaque	irregular
Leucoxene					Tr				W	beige	subrounded	polished	opaque	irregular.
Phosphate					Tr				W	red-brown	subrounded	resinous	opaque	irregular
Tourmaline			Tr	Tr	Tr				W	black-brown	subrounded, rounded	glassy	translucent, opaque	irregular, near spherical.
Zircon				Tr	Tr				W	colourless	subrounded	glassy	transparent	ovate
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight	7.930000 g	Size Range	-1.2+0.3 mm
Weight Observed	7.930000 g		

Technician: JED
Date Observed: 14-Dec-05
Report Printed: 12/01/2006 10:03:52 AM

Magnetic Fractions vs Size Fraction

mm	+1.2	+1.0	+.8	+.4	+.3	+.25	+.20	+.10
NotMag			All	All	All			

Comment about this sample:

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Detailed Heavy Mineral Analysis

Our Job No.: 05084
Disc No.: -

Sample No: 159882

Overall Sample Assessment: **Negative**

Your Project Code: Cox Arnold NT

Sample Type (as collected):	Loam	Head Weight	54.76 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:	DMS Concentrate		

Diamond

mm	+1.2	+1.0	+.8	+.4	+.3	+.25	+.20	+.10	Total particles	Description of these particles

Key Minerals

mm	+1.2	+1.0	+.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

mm	+1.2	+1.0	+.8	+.4	+.3	+.25	+.20	+.10	Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
Anatase					Tr				W	grey-blue	subangular	greasy	translucent	irregular.
Barite					Tr				MW	white	rounded	waxy	opaque	granular.
Fe Oxide/Hydroxide			100	100	20				W	mustard, brown	subangular to rounded	polished	opaque	platy
Leucoxene					30				WW	grey, beige	rounded	porcelain-like	opaque	irregular.
Phosphate					Tr				W	red-brown	rounded	resinous	opaque	near spherical.
Tourmaline				Tr	50				WW	black-brown	rounded	frosted	translucent	near spherical.
Zircon					Tr				WW	colourless	rounded	frosted	transparent	near spherical.
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight	0.140000 g	Size Range	-1.2+0.3 mm
Weight Observed	0.140000 g		

Magnetic Fractions vs Size Fraction

mm	+1.2	+1.0	+.8	+.4	+.3	+.25	+.20	+.10
NotMag			All	All	All			

Technician: LF
Date Observed: 14-Dec-05
Report Printed: 12/01/2006 10:06:37 AM

Comment about this sample: