



Detailed Heavy Mineral Analysis

Our Job No.: 09059
Disc No.: -

Sample No: ABH000050

Overall Sample Assessment: **Negative**

Your Project Code: Glyde Abner NT

Sample Type (as collected): Stream Sediment Head Weight: 17.4 kg
 Sample Type (as received): Stream 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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|-----|----|--|----|--|--|--|--|
| Anatase | | | | | | | | | Tr | | MW | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 100 | | | 100 | | | MW | | | | |
| Leucoxene | | | | | Tr | | | Tr | | | WW | | | | |
| Rutile | | | | | | | | Tr | | | WW | | | | |
| Tourmaline | | | | | | | | Tr | | | WW | | | | |
| Zircon | | | | | | | | Tr | | | WW | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | | |

What Has Been Observed?

Final Conc Weight: 0.7500000 g | Size Range: -0.5+0.2 mm
 Weight Observed: 0.7500000 g

Technician: LF

Date Observed: 18-Aug-09

Report Printed: 24/08/2009 1:07:23 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:



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 09059

Disc No.: -

Sample No:

ABH000051

Overall Sample Assessment

Negative

Your Project Code:

Glyde Abner NT

Sample Type (as collected): Stream Sediment

Head Weight 35.5 kg

Sample Type (as received): Stream 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 | | | | | | |
| Anatase | | | | | Tr | | | Tr | | | | | | |
| Corundum | | | | | | | | Tr | | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 100 | | | 100 | | | | | | |
| Leucoxene | | | | | Tr | | | Tr | | | | | | |
| Rutile | | | | | | | | Tr | | | | | | |
| Tourmaline | | | | | Tr | | | Tr | | | | | | |
| Zircon | | | | | Tr | | | Tr | | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | |

What Has Been Observed?

Final Conc Weight 1.7300000 g | Size Range -0.5+0.2 mm

Weight Observed 1.7300000 g

Technician: LF

Date Observed: 04-Aug-09

Report Printed: 24/08/2009 1:07:48 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:



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596
Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 09076
Disc No.:

Sample No: ABH000052

Overall Sample Assessment: **Positive**

Your Project Code: Glyde Abner NT

| | | | |
|-----------------------------|-----------------|-------------|----------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 35.66 kg |
| Sample Type (as received): | Stream Sediment | 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 | | | | | 4 | | | | | UNK | B | 4 | B | A |
| DAF, black, smooth subhedra, friable, granular fracture | | | | | | | | | | | | | | |
| Chromite/Cr-Spinel | | | | | 1 | | | | | UNK | C | 1 | C | B |
| DAF, smooth, friable, broken octahedra | | | | | | | | | | | | | | |

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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|--|--|--|-----|-----|--|--|-----|--|----|--|--|--|--|--|
| Anatase | | | | | Tr | | | Tr | | W | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 100 | | | 100 | | MW | | | | | |
| Ilmenite | | | | Tr | Tr | | | | | MW | | | | | |
| Leucoxene | | | | | Tr | | | Tr | | W | | | | | |
| Rutile | | | | | | | | Tr | | MW | | | | | |
| Sulphides | | | | Tr | Tr | | | | | MF | | | | | |
| Tourmaline | | | | | | | | Tr | | WW | | | | | |
| Zircon | | | | | | | | Tr | | WW | | | | | |

| | | | | | | | | | | | | | | | |
|--------------|---|---|---|------|------|---|------|---|--|--|--|--|--|--|--|
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | | |
|--------------|---|---|---|------|------|---|------|---|--|--|--|--|--|--|--|

What Has Been Observed?

Final Conc Weight: 5.1000000 g | Size Range: -0.5+0.2mm
Weight Observed: 5.1000000 g

Technician: JED

Date Observed: 23-Sep-09

Report Printed: 30/09/2009 3:00:20 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:



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 09076
Disc No.:

Sample No: ABH000053

Overall Sample Assessment: **Negative**

Your Project Code: Glyde Abner NT

| | | | |
|-----------------------------|-----------------|-------------|----------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 41.14 kg |
| Sample Type (as received): | Stream Sediment | 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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|---|-----|--|----|--|--|--|--|
| Anatase | | | | | | | | | Tr | | MW | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 100 | | | | 100 | | W | | | | |
| Leucoxene | | | | | Tr | | | | Tr | | MW | | | | |
| Rutile | | | | | | | | | Tr | | MW | | | | |
| Tourmaline | | | | | | | | | Tr | | WW | | | | |
| Zircon | | | | | | | | | Tr | | MW | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | | |

What Has Been Observed?

Final Conc Weight: 4.9 g | Size Range: -0.5+0.2 mm
Weight Observed: 4.9 g

Technician: BJJ

Date Observed: 23-Sep-09

Report Printed: 30/09/2009 3:00:46 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:



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 09085

Disc No.: -

Sample No:

ABH000054

Overall Sample Assessment

Negative

Your Project Code:

Abner NT

Sample Type (as collected): Stream Sediment

Head Weight 35.72 kg

Sample Type (as received): Stream 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 | | | | | | |

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

What Has Been Observed?

Final Conc Weight 27.250000 g | Size Range -0.5+0.2 mm

Weight Observed 27.250000 g

Technician: BJG

Date Observed: 14-Oct-09

Report Printed: 16/10/2009 9:56:30 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.: 09085
Disc No.: -

Sample No: ABH000055

Overall Sample Assessment: **Negative**

Your Project Code: Abner NT

| | | | |
|-----------------------------|-----------------|-------------|----------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 44.42 kg |
| Sample Type (as received): | Stream 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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|----|--|----|--|--|--|--|--|
| Anatase | | | | | Tr | | | Tr | | W | | | | | |
| Corundum | | | | | Tr | | | Tr | | MW | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 70 | | | 30 | | W | | | | | |
| Leucoxene | | | | Tr | 30 | | | 50 | | WW | | | | | |
| Rutile | | | | | Tr | | | Tr | | W | | | | | |
| Tourmaline | | | | | Tr | | | Tr | | WW | | | | | |
| Zircon | | | | | Tr | | | 20 | | WW | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | | |

What Has Been Observed?

Final Conc Weight: 0.05 g | Size Range: -0.5+0.2 mm
Weight Observed: 0.05 g

Technician: JED

Date Observed: 12-Oct-09

Report Printed: 16/10/2009 9:56:54 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.: 09085
Disc No.: -

Sample No: **ABH000056**

Overall Sample Assessment: **Negative**

Your Project Code: Abner NT

| | | | |
|-----------------------------|-----------------|-------------|----------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 51.36 kg |
| Sample Type (as received): | Stream 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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|----|----|----|--|----|--|--|--|--|--|
| Anatase | | | | | Tr | | | | | W | | | | | |
| Corundum | | | | | Tr | | | | | MW | | | | | |
| Epidote | | | | | | | | Tr | | MW | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 100 | | | | | MW | | | | | |
| Kyanite | | | | | Tr | | | | | MW | | | | | |
| Leucoxene | | | | | Tr | | | | | WW | | | | | |
| Phosphate | | | | | Tr | Tr | | | | WW | | | | | |
| Rutile | | | | | Tr | | | | | W | | | | | |
| Tourmaline | | | | | Tr | Tr | | | | WW | | | | | |
| Zircon | | | | | Tr | | | | | WW | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 0% | % | | | | | | | |

What Has Been Observed?

Final Conc Weight: 13.4 g | Size Range: -0.5+0.2mm
Weight Observed: 13.4 g

Technician: JED

Date Observed: 13-Oct-09

Report Printed: 16/10/2009 9:57:18 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.: 09085
Disc No.: -

Sample No: ABH000057

Overall Sample Assessment: **Negative**

Your Project Code: Abner NT

| | | | |
|-----------------------------|-----------------|-------------|----------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 44.52 kg |
| Sample Type (as received): | Stream 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 | | | | | | |

| | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|----|--|----|--|--|--|--|
| Anatase | | | | | | | | Tr | | W | | | | |
| Corundum | | | | Tr | Tr | | | Tr | | MW | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 75 | | | 30 | | W | | | | |
| Kyanite | | | | | Tr | | | Tr | | W | | | | |
| Leucoxene | | | | Tr | 20 | | | 50 | | WW | | | | |
| Phosphate | | | | Tr | Tr | | | Tr | | WW | | | | |
| Rutile | | | | | Tr | | | Tr | | W | | | | |
| Tourmaline | | | | | Tr | | | Tr | | WW | | | | |
| Zircon | | | | | 5 | | | 20 | | W | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | |

What Has Been Observed?

Final Conc Weight: 0.15 g | Size Range: -0.5+0.2mm
Weight Observed: 0.15 g

Technician: JED

Date Observed: 14-Oct-09

Report Printed: 16/10/2009 9:57:42 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.: 09085
Disc No.: -

Sample No: ABH000058

Overall Sample Assessment: **Negative**

Your Project Code: Abner NT

Sample Type (as collected): Stream Sediment Head Weight: 44.34 kg
 Sample Type (as received): Stream 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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|---|---|---|--|------|--|--|------|--|----|--|--|--|--|--|
| Anatase | | | | | Tr | | | Tr | | W | | | | | |
| Barite | | | | | Tr | | | Tr | | W | | | | | |
| Fe Oxide/Hydroxide | | | | | 100 | | | 95 | | MW | | | | | |
| Kyanite | | | | | | | | Tr | | W | | | | | |
| Leucoxene | | | | | Tr | | | 5 | | WW | | | | | |
| Rutile | | | | | | | | Tr | | W | | | | | |
| Tourmaline | | | | | Tr | | | Tr | | W | | | | | |
| Zircon | | | | | | | | Tr | | WW | | | | | |
| TOTAL | % | % | % | | 100% | | | 100% | | % | | | | | |

What Has Been Observed?

Final Conc Weight: 0.13 g | Size Range: -0.5+0.2 mm
 Weight Observed: 0.13 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: 14-Oct-08

Report Printed: 16/10/2009 9:58:05 AM



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596
Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 09094
Disc No.: -

Sample No: ABH000059

Overall Sample Assessment: **Negative**

Your Project Code: Abner, Foelsche, Glyde NT

Sample Type (as collected): Anthill Head Weight: 34.04 kg
 Sample Type (as received): Anthill Wet Weight: kg
 Observed Sample Type: MI 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 | | | | | MW | | | | | 1+0.3mm, probed |
| Fe Oxide/Hydroxide | | | | 100 | 100 | | 100 | | | MW | | | | | |
| Leucoxene | | | | | | | | Tr | | WW | | | | | |
| Rutile | | | | | | | | Tr | | WW | | | | | |
| Spessartine | | | | | Tr | | | | | MW | | | | | 1+0.3mm |
| Zircon | | | | | | | | Tr | | WW | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | % | | | | | | |

What Has Been Observed?

Final Conc Weight: 22.29 g | Size Range: -0.5+0.2 mm
 Weight Observed: 22.29 g

Technician: LF

Date Observed: 29-Oct-09

Report Printed: 4/11/2009 4:09:21 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:



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 09099

Disc No.: -

Sample No: ABH000060

Overall Sample Assessment: **Negative**

Your Project Code: Abner NT

Sample Type (as collected): Loam Head Weight: 43.78 kg
 Sample Type (as received): Loam Wet Weight: kg
 Observed Sample Type: MI 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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|---|-----|--|----|--|--|--|--|
| Epidote | | | | | | | | | Tr | | W | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 100 | | | | 100 | | MW | | | | |
| Leucoxene | | | | | | | | | Tr | | WW | | | | |
| Rutile | | | | | | | | | Tr | | WW | | | | |
| Tourmaline | | | | | | | | | Tr | | WW | | | | |
| Zircon | | | | | | | | | Tr | | WW | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | | |

What Has Been Observed?

Final Conc Weight: 4.2900000 g | Size Range: -0.5+0.2 mm
 Weight Observed: 4.2900000 g

Technician: LF

Date Observed: 30-Oct-09

Report Printed: 4/11/2009 4:25:07 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.: 09099
Disc No.: -

| | |
|---------------------------|------------|
| Sample No: | ABH000061 |
| Overall Sample Assessment | Unresolved |
| Your Project Code: | Abner NT |

| | | | |
|-----------------------------|----------------|-------------|----------|
| Sample Type (as collected): | Loam | Head Weight | 40.22 kg |
| Sample Type (as received): | Loam | Wet Weight | kg |
| Observed Sample Type: | MI 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 | | | | | | |

| | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|---|-----|----|---|---|---|--|
| Chromite/Cr-Spinel | | | | | | | | 1 | UNK | B1 | 1 | B | B | |
| SD, dull black, well rounded, granular fracture | | | | | | | | | | | | | | |

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 | | | | | | |

| | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|-----|----|--|--|--|--|--|
| Anatase | | | | | Tr | | | Tr | W | | | | | |
| Corundum | | | | | Tr | | | | MF | | | | | |
| Epidote | | | | | Tr | | | | MW | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 100 | | | 100 | MW | | | | | |
| Leucoxene | | | | | Tr | | | Tr | WW | | | | | |
| Rutile | | | | | Tr | | | Tr | W | | | | | |
| Tourmaline | | | | | Tr | | | Tr | WW | | | | | |
| Zircon | | | | | Tr | | | Tr | W | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | |

What Has Been Observed?

| | | | |
|-------------------|---------|------------|------------|
| Final Conc Weight | 11.64 g | Size Range | -0.5+0.2mm |
| Weight Observed | 11.64 g | | |

Technician: JED
Date Observed: 30-Oct-09

Report Printed: 4/11/2009 4:25:38 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:



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 09099

Disc No.: -

Sample No:

ABH000062

Overall Sample Assessment

Negative

Your Project Code:

Abner NT

Sample Type (as collected): Loam

Head Weight 49.82 kg

Sample Type (as received): Loam

Wet Weight kg

Observed Sample Type: MI 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 | | | | | | |
| Anatase | | | | | Tr | | Tr | | | W | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 90 | | 80 | | | W | | | | |
| Leucoxene | | | | | 10 | | 15 | | | WW | | | | |
| Phosphate | | | | | Tr | | Tr | | | WW | | | | |
| Rutile | | | | | Tr | | Tr | | | WW | | | | |
| Zircon | | | | | Tr | | 5 | | | WW | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | |

What Has Been Observed?

Final Conc Weight 0.53 g | Size Range -0.5+0.2 mm

Weight Observed 0.53 g

Technician: LF

Date Observed: 30-Oct-09

Report Printed: 4/11/2009 4:26:06 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:



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 09109

Disc No.: -

Sample No: ABH000063

Overall Sample Assessment: **Negative**

Your Project Code: Abner NT

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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|---|-----|-----|-----|--|--|--|--|
| Anatase | | | | | | | | | Tr | | WW | | | | |
| Epidote | | | | | | | | | Tr | Tr | MW | | | | |
| Fe Oxide/Hydroxide | | | | | | | | | 100 | 100 | 100 | | | | |
| Leucoxene | | | | | | | | | Tr | Tr | WW | | | | |
| Phosphate | | | | | | | | | Tr | | WW | | | | |
| Rutile | | | | | | | | | | Tr | W | | | | |
| Tourmaline | | | | | | | | | | Tr | WW | | | | |
| Zircon | | | | | | | | | Tr | Tr | WW | | | | |
| 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: JED

Date Observed: 30-Nov-09

Report Printed: 16/12/2009 3:25:57 PM



Detailed Heavy Mineral Analysis

Our Job No.: 09109
Disc No.: -

Sample No: ABH000064

Overall Sample Assessment: **Negative**

Your Project Code: Abner NT

Sample Type (as collected): Loam Head Weight: 44.06 kg
 Sample Type (as received): Loam Wet Weight: kg
 Observed Sample Type: MI 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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|---|---|----|---|---|---|---|--|
| Chromite/Cr-Spinel | | | | | | | | 1 | W | B1 | 1 | B | C | black, dull irregular, friable, granular fracture | |
|--------------------|--|--|--|--|--|--|--|---|---|----|---|---|---|---|--|

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 | | | | | | |

| | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|----|--|--|--|--|--|--|
| Anatase | | | | | Tr | | Tr | MW | | | | | | |
| Barite | | | | Tr | Tr | | Tr | W | | | | | | |
| Corundum | | | | | | | Tr | MW | | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 60 | | 70 | W | | | | | | |
| Leucosene | | | | | 40 | | 30 | WW | | | | | | |
| Phosphate | | | | Tr | Tr | | Tr | WW | | | | | | |
| Rutile | | | | | Tr | | Tr | MW | | | | | | |
| Zircon | | | | | Tr | | Tr | WW | | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | |

What Has Been Observed?

Final Conc Weight: 0.09 g Size Range: -0.5+0.2mm
 Weight Observed: 0.09 g

Technician: JED
Date Observed: 30-Nov-09

Report Printed: 16/12/2009 3:26:21 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.: 09109
Disc No.: -

Sample No: ABH000065

Overall Sample Assessment: **Negative**

Your Project Code: Abner NT

Sample Type (as collected): Loam Head Weight: 45.36 kg
 Sample Type (as received): Loam Wet Weight: kg
 Observed Sample Type: MI 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 | | |

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 | | | | | | |

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 | | | | | | |

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

What Has Been Observed?

Final Conc Weight: 4.52 g | Size Range: -0.5+0.2mm
 Weight Observed: 4.52 g

Technician: JED

Date Observed: 01-Dec-09

Report Printed: 16/12/2009 3:26:45 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.: 09126
Disc No.:

Sample No: **ABH000066**

Overall Sample Assessment: **Positive**

Your Project Code:

| | | | |
|-----------------------------|-----------------|-------------|----------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 44.34 kg |
| Sample Type (as received): | Stream Sediment | Wet Weight | kg |
| Observed Sample Type: | MI 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 |
| Diamond | | | | | 1 | | | | | 1 | colourless, irregular, resorbed - see attached description |

| 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 |
| Chromite/Cr-Spinel | | | | | 1 | | | | | | UNK | B | 1 | B | C |
| dull black, cokey, finely pitted, granular and weathered | | | | | | | | | | | | | | | |

| 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 |
| Anatase | | | | | Tr | Tr | | | Tr | | | | | | MW |
| Corundum | | | | | | Tr | | | Tr | | | | | | MW |
| Epidote | | | | | | Tr | | | Tr | | | | | | MW |
| Fe Oxide/Hydroxide | | | | | 100 | 100 | | | 100 | | | | | | MW |
| Haematite | | | | | | Tr | | | Tr | | | | | | MW |
| Kyanite | | | | | Tr | Tr | | | Tr | | | | | | MW |
| Leucoxene | | | | | Tr | Tr | | | Tr | | | | | | W |
| Phosphate | | | | | Tr | Tr | | | Tr | | | | | | WW |
| Rutile | | | | | Tr | Tr | | | Tr | | | | | | MW |
| Tourmaline | | | | | | Tr | | | Tr | | | | | | WW |
| Zircon | | | | | Tr | Tr | | | Tr | | | | | | W |
| TOTAL | | % | % | % | 100% | 100% | | % | 100% | % | | | | | |

What Has Been Observed?

Final Conc Weight: 10.290000 g | Size Range: -0.5+0.2mm
Weight Observed: 10.290000 g

Technician: JED

Date Observed: 11-Jan-10

Report Printed: 15/01/2010 3:56:16 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.: 10053
Disc No.:

Sample No: **ABH000067**

Overall Sample Assessment: **Unresolved**

Your Project Code: **Abner Range NT**

| | | | |
|-----------------------------|-----------------|-------------|----------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 90.46 kg |
| Sample Type (as received): | Stream Sediment | 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 | | | | | | | | Assessment | Wear | Total particles | No of particles probed |
|----|---|------|------|------|------|-------|-------|-------|------------|------|-----------------|------------------------|
| | +2.0 | +1.2 | +0.8 | +0.4 | +0.3 | +0.25 | +0.20 | +0.10 | | | | |

| | | | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|---|--|----------|-----|--|---|
| Chromite/Cr-Spinel | | | | | | | | 1 | | B | UNK | | 1 |
|--------------------|--|--|--|--|--|--|--|---|--|----------|-----|--|---|

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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|----|--|----|--|--|--|-------------------------|--|
| Anatase | | | | | Tr | | | Tr | | LA | | | | | |
| Corundum | | | | | Tr | | | Tr | | HA | | | | | |
| Fe Oxide/Hydroxide | | | | 95 | 70 | | | 70 | | | | | | | |
| Leucoxene | | | | Tr | 20 | | | 20 | | HA | | | | | |
| Phosphate | | | | Tr | Tr | | | Tr | | HA | | | | | |
| Rutile | | | | | | | | Tr | | HA | | | | | |
| Spessartine | | | | | | | | Tr | | MA | | | | 1 grain, see probe data | |
| Staurolite | | | | | Tr | | | Tr | | HA | | | | | |
| Tourmaline | | | | 5 | 10 | | | 10 | | HA | | | | | |
| Zircon | | | | | Tr | | | Tr | | HA | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | | |

What Has Been Observed?

| | | | |
|-------------------|-------------|------------|------------|
| Final Conc Weight | 0.7600000 g | Size Range | -0.5+0.2mm |
| Weight Observed | 0.7600000 g | | |

Technician: LF

Date Observed: 17-Jun-10

Report Printed: 2/07/2010 12:10:33 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.: 10053
Disc No.:

Sample No: ABH000068

Overall Sample Assessment: **Negative**

Your Project Code: Abner Range NT

Sample Type (as collected): Stream Sediment Head Weight: 63.8 kg
 Sample Type (as received): Stream Sediment Wet Weight: kg
 Observed Sample Type:

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 Assessment Wear Total particles No of particles probed

| 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 | | | | | | |
|----|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|
|----|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|

| | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|----|------|----|--|----|--|--|--|--|
| Anatase | | | | | Tr | | | Tr | | MA | | | | |
| Corundum | | | | | Tr | Tr | | Tr | | MA | | | | |
| Epidote | | | | | | | | Tr | | MA | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 67 | | | 60 | | | | | | |
| Leucoxene | | | | | Tr | 15 | | 10 | | HA | | | | |
| Phosphate | | | | | Tr | | | Tr | | HA | | | | |
| Rutile | | | | | Tr | | | Tr | | HA | | | | |
| Tourmaline | | | | | Tr | 15 | | 20 | | HA | | | | |
| Zircon | | | | | | 3 | | 10 | | HA | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | |

What Has Been Observed?

Final Conc Weight: 0.9800000 g Size Range: -0.5+0.2mm
 Weight Observed: 0.9800000 g

Technician: JED

Date Observed: 18-Jun-10

Report Printed: 2/07/2010 12:10:58 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.: 10053
Disc No.: -

Sample No: ABH000069

Overall Sample Assessment: **Negative**

Your Project Code: Abner Range NT

| | | | |
|-----------------------------|-----------------|-------------|---------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 75.4 kg |
| Sample Type (as received): | Stream Sediment | 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 | | | | | | | | Assessment | Wear | Total particles | No of particles probed |
|----|---|------|------|------|------|-------|-------|-------|------------|------|-----------------|------------------------|
| | +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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|-----|----|--|--|--|--|--|--|
| Anatase | | | | | Tr | | | Tr | MA | | | | | | |
| Corundum | | | | | Tr | | | Tr | MA | | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 100 | | | 100 | | | | | | | |
| Leucoxene | | | | Tr | Tr | | | Tr | HA | | | | | | |
| Phosphate | | | | Tr | Tr | | | Tr | HA | | | | | | |
| Rutile | | | | | | | | Tr | HA | | | | | | |
| Tourmaline | | | | Tr | Tr | | | Tr | HA | | | | | | |
| Zircon | | | | Tr | Tr | | | Tr | HA | | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | | |

What Has Been Observed?

Final Conc Weight: 24.110000 g | Size Range: -0.5+0.2mm
Weight Observed: 24.110000 g

Technician: JED

Date Observed: 18-Jun-10

Report Printed: 2/07/2010 12:11:23 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.: 10058
Disc No.: -

Sample No: ABH000070

Overall Sample Assessment: **Negative**

Your Project Code: Abner and Foelsche NT

| | | | |
|-----------------------------|----------------|-------------|----------|
| Sample Type (as collected): | Loam | Head Weight | 69.12 kg |
| Sample Type (as received): | Loam | Wet Weight | kg |
| Observed Sample Type: | MI 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 | | | | | | | | Assessment | Wear | Total particles | No of particles probed |
|----|---|------|------|------|------|-------|-------|-------|------------|------|-----------------|------------------------|
| | +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 | | MA | | | | | |
| Anatase | | | | | Tr | | | Tr | | MA | | | | | |
| Barite | | | | 5 | 15 | | | Tr | | HA | | | | | |
| Corundum | | | | | Tr | | | Tr | | LA | | | | | |
| Epidote | | | | | Tr | | | | | MA | | | | | |
| Fe Oxide/Hydroxide | | | | 95 | 55 | | | 60 | | MA | | | | | |
| Haematite | | | | | Tr | | | Tr | | | | | | | |
| Ilmenite | | | | | | | | Tr | | MA | | | | | |
| Leucoxene | | | | Tr | 30 | | | 40 | | HA | | | | | |
| Phosphate | | | | | Tr | | | Tr | | HA | | | | | |
| Rutile | | | | | Tr | | | Tr | | MA | | | | | |
| Tourmaline | | | | | Tr | | | Tr | | HA | | | | | |
| Zircon | | | | Tr | Tr | | | Tr | | MA | | | | | |

| | | | | | | | | | | | | | | | |
|--------------|---|---|---|------|------|---|------|---|--|--|--|--|--|--|--|
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | | |
|--------------|---|---|---|------|------|---|------|---|--|--|--|--|--|--|--|



DIATECH

HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 10058
Disc No.: -

Sample No: ABH000070

Overall Sample Assessment: **Negative**

Your Project Code: Abner and Foelsche NT

What Has Been Observed?

Final Conc Weight: 1.08 g | Size Range: -0.5+0.2mm
Weight Observed: 1.08 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: 05-Jul-10

Report Printed: 8/07/2010 11:43:33 AM



Detailed Heavy Mineral Analysis

Our Job No.: 10066
Disc No.:

Sample No: ABH000072

Overall Sample Assessment: **Negative**

Your Project Code: Abner Range NT

Sample Type (as collected): Stream Sediment Head Weight: 73.42 kg
 Sample Type (as received): Stream Sediment Wet Weight: kg
 Observed Sample Type: MI Concentrate

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

Key Minerals Number of particles in each size fraction Assessment Wear Total particles No of particles probed
 mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10

| | | | | | | | | | | | | | |
|--------------------|--|--|--|---|--|--|--|--|--|---|-----|---|--|
| Chromite/Cr-Spinel | | | | 1 | | | | | | C | UNK | 1 | |
|--------------------|--|--|--|---|--|--|--|--|--|---|-----|---|--|

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

| Other Minerals | mm | +2.0 | +1.2 | +.8 | +.4 | +.3 | +.25 | +.20 | +.10 | Wear | Colour | Angularity | Lustre | Transparency | Form/Shape |
|--------------------|----|------|------|-----|------|------|------|------|------|------|--------|------------|--------|--------------|------------|
| Anatase | | | | | Tr | Tr | | Tr | | MA | | | | | |
| Corundum | | | | | | Tr | | Tr | | MA | | | | | |
| Epidote | | | | | Tr | Tr | | 5 | | MA | | | | | |
| Fe Oxide/Hydroxide | | | | | 100 | 95 | | 65 | | HA | | | | | |
| Haematite | | | | | Tr | Tr | | Tr | | MA | | | | | |
| Ilmenite | | | | | | Tr | | Tr | | MA | | | | | |
| Leucoxene | | | | | Tr | 5 | | 20 | | HA | | | | | |
| Phosphate | | | | | | Tr | | Tr | | HA | | | | | |
| Rutile | | | | | Tr | Tr | | Tr | | MA | | | | | |
| Tourmaline | | | | | | Tr | | Tr | | HA | | | | | |
| Zircon | | | | | Tr | Tr | | 10 | | HA | | | | | |
| TOTAL | | % | % | % | 100% | 100% | % | 100% | % | | | | | | |

What Has Been Observed?

Final Conc Weight: 1.51 g Size Range: -0.5+0.2 mm
 Weight Observed: 1.51 g

Magnetic Fractions vs Size Fraction

| mm | +2.0 | +1.2 | +.8 | +.4 | +.3 | +.25 | +.20 | +.10 |
|----|------|------|-----|-----|-----|------|------|------|
| NM | | | | All | All | | All | |

Comment about this sample:

Technician: JED

Date Observed: 24-Aug-10

Report Printed: 8/09/2010 3:36:21 PM



Detailed Heavy Mineral Analysis

Our Job No.: 10066
Disc No.: -

Sample No: ABH000073

Overall Sample Assessment: **Negative**

Your Project Code: Abner Range NT

| | | | |
|-----------------------------|-----------------|-------------|----------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 37.88 kg |
| Sample Type (as received): | Stream Sediment | Wet Weight | kg |
| Observed Sample Type: | MI 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 | | | | | | | | Assessment | Wear | Total particles | No of particles probed |
|----|---|------|------|------|------|-------|-------|-------|------------|------|-----------------|------------------------|
| | +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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|-----|--|----|--|--|--|--|--|
| Anatase | | | | | | | | Tr | | HA | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 100 | | | 100 | | HA | | | | | |
| Haematite | | | | | Tr | | | | | HA | | | | | |
| Kyanite | | | | | | | | Tr | | MA | | | | | |
| Leucosene | | | | Tr | Tr | | | Tr | | HA | | | | | |
| Muscovite | | | | | Tr | | | Tr | | | | | | | |
| Phosphate | | | | | | | | Tr | | HA | | | | | |
| Rutile | | | | | Tr | | | Tr | | HA | | | | | |
| Tourmaline | | | | | Tr | | | Tr | | HA | | | | | |
| Zircon | | | | | Tr | | | Tr | | HA | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | | |

What Has Been Observed?

Final Conc Weight: 38.900001 g | Size Range: -0.5+0.2mm
Weight Observed: 38.900001 g

Technician: JED

Date Observed: 20-Aug-10

Report Printed: 8/09/2010 3:36:48 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.: 10066
Disc No.: -

Sample No: ABH000074

Overall Sample Assessment: **Negative**

Your Project Code: Abner Range NT

Sample Type (as collected): Stream Sediment Head Weight: 36.52 kg
 Sample Type (as received): Stream Sediment Wet Weight: kg
 Observed Sample Type: MI 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 Assessment Wear Total particles No of particles probed

| 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 | | | | | | |
|----|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|
|----|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|

| | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|----|------|----|--|----|--|--|--|--|
| Anatase | | | | | Tr | | | 5 | | HA | | | | |
| Barite | | | | | Tr | Tr | | Tr | | HA | | | | |
| Corundum | | | | | | | | Tr | | MA | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 50 | | | 30 | | HA | | | | |
| Ilmenite | | | | | Tr | | | Tr | | HA | | | | |
| Leucoxene | | | | Tr | 50 | | | 60 | | HA | | | | |
| Phosphate | | | | Tr | Tr | | | Tr | | HA | | | | |
| Rutile | | | | | Tr | | | Tr | | HA | | | | |
| Zircon | | | | | Tr | | | 5 | | HA | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | |

What Has Been Observed?

Final Conc Weight: 0.1800000 g Size Range: -0.5+0.2mm
 Weight Observed: 0.1800000 g

Technician: BJB

Date Observed: 24-Aug-10

Report Printed: 8/09/2010 3:37:15 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:



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 10066

Disc No.: -

Sample No:

ABH000075

Overall Sample Assessment

Unresolved

Your Project Code:

Abner Range NT

Sample Type (as collected): Stream Sediment

Head Weight 30.62 kg

Sample Type (as received): Stream Sediment

Wet Weight kg

Observed Sample Type: MI 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 | | | | | | | | Assessment | Wear | Total particles | No of particles probed |
|----|---|------|------|------|------|-------|-------|-------|------------|------|-----------------|------------------------|
| | +2.0 | +1.2 | +0.8 | +0.4 | +0.3 | +0.25 | +0.20 | +0.10 | | | | |
| | | | | | | | | | | | | |

Chromite/Cr-Spinel

1

B

HA

1

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 | | | | | | |
| Anatase | | | | | Tr | | Tr | | MA | | | | | |
| Barite | | | | | Tr | Tr | Tr | | HA | | | | | |
| Corundum | | | | | Tr | | Tr | | HA | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 30 | | 30 | | HA | | | | | |
| Ilmenite | | | | | | | Tr | | HA | | | | | |
| Leucoxene | | | | Tr | 70 | | 70 | | HA | | | | | |
| Phosphate | | | | | Tr | | Tr | | HA | | | | | |
| Rutile | | | | | Tr | | Tr | | HA | | | | | |
| Tourmaline | | | | | Tr | | Tr | | HA | | | | | |
| Zircon | | | | | Tr | | Tr | | HA | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | |

What Has Been Observed?

Final Conc Weight 0.1 g | Size Range -0.5+0.2mm

Weight Observed 0.1 g

Technician: JED

Date Observed: 24-Aug-10

Report Printed: 8/09/2010 3:37:41 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.: 10066
Disc No.: -

Sample No: ABH000076

Overall Sample Assessment: **Negative**

Your Project Code: Abner Range NT

| | | | |
|-----------------------------|-----------------|-------------|----------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 36.88 kg |
| Sample Type (as received): | Stream Sediment | Wet Weight | kg |
| Observed Sample Type: | MI 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 | | | | | | | | Assessment | Wear | Total particles | No of particles probed |
|----|---|------|------|------|------|-------|-------|-------|------------|------|-----------------|------------------------|
| | +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 | | | | | | |

| | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|----|----|--|--|--|--|--|
| Anatase | | | | | Tr | | | Tr | MA | | | | | |
| Corundum | | | | | | | | Tr | MA | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 70 | | | 80 | HA | | | | | |
| Ilmenite | | | | | | | | Tr | HA | | | | | |
| Leucoxene | | | | Tr | 30 | | | 15 | HA | | | | | |
| Phosphate | | | | | Tr | | | Tr | HA | | | | | |
| Rutile | | | | | Tr | | | Tr | HA | | | | | |
| Zircon | | | | | Tr | | | 5 | HA | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | |

What Has Been Observed?

Final Conc Weight: 0.13 g | Size Range: -0.5+0.2 mm
Weight Observed: 0.13 g

Technician: JED

Date Observed: 24-Aug-10

Report Printed: 8/09/2010 3:38:06 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.: 10066
Disc No.: -

Sample No: ABH000077

Overall Sample Assessment: **Unresolved**

Your Project Code: Abner Range NT

Sample Type (as collected): Stream Sediment Head Weight: 40.66 kg
 Sample Type (as received): Stream Sediment Wet Weight: kg
 Observed Sample Type: MI Concentrate

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

Key Minerals Number of particles in each size fraction Assessment Wear Total particles No of particles probed
 mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10

| | | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|---|--|----------|----|----------|--|
| Chromite/Cr-Spinel | | | | | | | 1 | | B | HA | 1 | |
|--------------------|--|--|--|--|--|--|---|--|----------|----|----------|--|

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

| Other Minerals | mm | +2.0 | +1.2 | +.8 | +.4 | +.3 | +.25 | +.20 | +.10 | Wear | Colour | Angularity | Lustre | Transparency | Form/Shape |
|--------------------|----|------|------|-----|------|------|------|------|------|------|--------|------------|--------|--------------|------------|
| Anatase | | | | | | Tr | | Tr | | HA | | | | | |
| Barite | | | | | Tr | Tr | | Tr | | HA | | | | | |
| Corundum | | | | | | | | Tr | | MA | | | | | |
| Fe Oxide/Hydroxide | | | | | 100 | 30 | | 40 | | HA | | | | | |
| Ilmenite | | | | | | Tr | | Tr | | HA | | | | | |
| Leucoxene | | | | | Tr | 70 | | 50 | | HA | | | | | |
| Phosphate | | | | | Tr | Tr | | Tr | | HA | | | | | |
| Rutile | | | | | | Tr | | Tr | | HA | | | | | |
| Zircon | | | | | | | | 10 | | HA | | | | | |
| TOTAL | | % | % | % | 100% | 100% | % | 100% | % | | | | | | |

What Has Been Observed?

Final Conc Weight: 0.1200000 g Size Range: -0.5+0.2mm
 Weight Observed: 0.1200000 g

Technician: BJB

Date Observed: 24-Aug-10

Report Printed: 8/09/2010 3:38:31 PM

Magnetic Fractions vs Size Fraction

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

Comment about this sample:



Detailed Heavy Mineral Analysis

Our Job No.: 10066
Disc No.: -

Sample No: ABH000078

Overall Sample Assessment: **Negative**

Your Project Code: Abner Range NT

Sample Type (as collected): Stream Sediment Head Weight: 34.14 kg
 Sample Type (as received): Stream Sediment Wet Weight: kg
 Observed Sample Type: MI 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 Assessment Wear Total particles No of particles probed

| 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 |
|----|------|------|------|------|------|-------|-------|-------|
|----|------|------|------|------|------|-------|-------|-------|

| | | | | | | | | | | | | | |
|--------------------|--|--|--|-----|----|--|----|----|----|--|--|--|--|
| Anatase | | | | | Tr | | | Tr | HA | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 70 | | 70 | | HA | | | | |
| Ilmenite | | | | | | | | Tr | HA | | | | |
| Leucoxene | | | | Tr | 30 | | 30 | | HA | | | | |
| Phosphate | | | | | Tr | | Tr | | HA | | | | |
| Rutile | | | | | | | | Tr | HA | | | | |
| Tourmaline | | | | | Tr | | Tr | | HA | | | | |
| Zircon | | | | | Tr | | Tr | | HA | | | | |

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

What Has Been Observed?

Final Conc Weight: 0.12 g Size Range: -0.5+0.2 mm
 Weight Observed: 0.12 g

Technician: JED

Date Observed: 24-Aug-10

Report Printed: 8/09/2010 3:38:57 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.: 10066
Disc No.: -

Sample No: ABH000079

Overall Sample Assessment: **Negative**

Your Project Code: Abner Range NT

| | | | |
|-----------------------------|-----------------|-------------|---------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 29.7 kg |
| Sample Type (as received): | Stream Sediment | Wet Weight | kg |
| Observed Sample Type: | MI 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 | | | | | | | | Assessment | Wear | Total particles | No of particles probed |
|----|---|------|------|------|------|-------|-------|-------|------------|------|-----------------|------------------------|
| | +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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|----|--|----|--|--|--|--|--|
| Anatase | | | | | Tr | | | Tr | | HA | | | | | |
| Barite | | | | | Tr | | | | | HA | | | | | |
| Corundum | | | | | | | | Tr | | MA | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 60 | | | 50 | | HA | | | | | |
| Leucosene | | | | Tr | 40 | | | 50 | | HA | | | | | |
| Phosphate | | | | | Tr | | | Tr | | HA | | | | | |
| Rutile | | | | Tr | Tr | | | Tr | | HA | | | | | |
| Staurolite | | | | | Tr | | | Tr | | MA | | | | | |
| Tourmaline | | | | | Tr | | | Tr | | HA | | | | | |
| Zircon | | | | | Tr | | | Tr | | HA | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | | |

What Has Been Observed?

| | | | |
|-------------------|--------|------------|------------|
| Final Conc Weight | 0.06 g | Size Range | -0.5+0.2mm |
| Weight Observed | 0.06 g | | |

Technician: BJB

Date Observed: 24-Aug-10

Report Printed: 8/09/2010 3:39:30 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.: 10066
Disc No.: -

| | |
|---------------------------|----------------|
| Sample No: | ABH000080 |
| Overall Sample Assessment | Negative |
| Your Project Code: | Abner Range NT |

| | | | |
|-----------------------------|-----------------|-------------|----------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 47.22 kg |
| Sample Type (as received): | Stream Sediment | Wet Weight | kg |
| Observed Sample Type: | MI 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 | | |

| Key Minerals | Number of particles in each size fraction | | | | | | | | Assessment | Wear | Total particles | No of particles probed |
|--------------|---|------|------|------|------|------|-------|-------|------------|------|-----------------|------------------------|
| | mm | +2.0 | +1.2 | +0.8 | +0.4 | +0.3 | +0.25 | +0.20 | | | | |

| 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 | | | | | | |
| Anatase | | | | | Tr | | | Tr | | MA | | | | |
| Barite | | | | | Tr | Tr | | Tr | | HA | | | | |
| Corundum | | | | | Tr | | | Tr | | MA | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 60 | | | 40 | | HA | | | | |
| Leucoxene | | | | | 40 | | | 60 | | HA | | | | |
| Micrometeorites | | | | | Tr | | | Tr | | | | | | 2 grains |
| Phosphate | | | | | Tr | Tr | | Tr | | HA | | | | |
| Rutile | | | | | Tr | | | Tr | | HA | | | | |
| Staurolite | | | | | | | | Tr | | HA | | | | |
| Tourmaline | | | | | Tr | | | Tr | | HA | | | | |
| Zircon | | | | | Tr | | | Tr | | HA | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | |

What Has Been Observed?

| | | | |
|-------------------|-------------|------------|-------------|
| Final Conc Weight | 0.1600000 g | Size Range | -0.5+0.2 mm |
| Weight Observed | 0.1600000 g | | |

Technician: JED

Date Observed: 25-Aug-10

Report Printed: 8/09/2010 3:40:00 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.: 10066
Disc No.: -

Sample No: ABH000081

Overall Sample Assessment: **Negative**

Your Project Code: Abner Range NT

| | | | |
|-----------------------------|-----------------|-------------|----------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 32.86 kg |
| Sample Type (as received): | Stream Sediment | Wet Weight | kg |
| Observed Sample Type: | MI 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 | | |

| Key Minerals | Number of particles in each size fraction | | | | | | | | Assessment | Wear | Total particles | No of particles probed |
|--------------|---|------|------|------|------|------|-------|-------|------------|------|-----------------|------------------------|
| | mm | +2.0 | +1.2 | +0.8 | +0.4 | +0.3 | +0.25 | +0.20 | | | | |

| 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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|----------|----------|----------|-------------|-------------|----------|-------------|----------|----------|----|--|--|--|----------|--|
| Anatase | | | | | Tr | | | Tr | | HA | | | | | |
| Corundum | | | | | Tr | Tr | | Tr | | MA | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 50 | | | 40 | | HA | | | | | |
| Ilmenite | | | | | | | | Tr | | HA | | | | | |
| Kyanite | | | | | Tr | | | Tr | | HA | | | | | |
| Leucosene | | | | | 50 | | | 60 | | HA | | | | | |
| Micrometeorites | | | | | Tr | | | Tr | | | | | | 2 grains | |
| Phosphate | | | | | Tr | Tr | | Tr | | HA | | | | | |
| Rutile | | | | | Tr | | | Tr | | HA | | | | | |
| Tourmaline | | | | | Tr | | | Tr | | HA | | | | | |
| Zircon | | | | | Tr | | | Tr | | HA | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | % | | | | | | |

What Has Been Observed?

Final Conc Weight: 0.13 g | Size Range: -0.5+0.2 mm
Weight Observed: 0.13 g

Technician: JED

Date Observed: 25-Aug-10

Report Printed: 8/09/2010 3:40:26 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.: 10066
Disc No.: -

Sample No: ABH000082

Overall Sample Assessment: **Negative**

Your Project Code: Abner Range NT

| | | | |
|-----------------------------|-----------------|-------------|----------|
| Sample Type (as collected): | Stream Sediment | Head Weight | 36.86 kg |
| Sample Type (as received): | Stream Sediment | Wet Weight | kg |
| Observed Sample Type: | MI 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 | | | | | | | | Assessment | Wear | Total particles | No of particles probed |
|----|---|------|------|------|------|-------|-------|-------|------------|------|-----------------|------------------------|
| | +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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|---|---|---|--|------|------|--|----|------|----|----|--|--|--|--|
| Anatase | | | | | Tr | | | Tr | | HA | | | | | |
| Barite | | | | | Tr | | | Tr | | HA | | | | | |
| Corundum | | | | | Tr | | | Tr | | MA | | | | | |
| Fe Oxide/Hydroxide | | | | | 100 | | | 40 | | 30 | HA | | | | |
| Kyanite | | | | | Tr | | | Tr | | HA | | | | | |
| Leucoxene | | | | | Tr | | | 60 | | 70 | HA | | | | |
| Rutile | | | | | Tr | | | Tr | | HA | | | | | |
| Zircon | | | | | Tr | | | Tr | | HA | | | | | |
| TOTAL | % | % | % | | 100% | 100% | | % | 100% | % | | | | | |

What Has Been Observed?

Final Conc Weight: 0.11 g | Size Range: -0.5+0.2mm
Weight Observed: 0.11 g

Technician: JED

Date Observed: 25-Aug-10

Report Printed: 8/09/2010 3:40:54 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:



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 10066

Disc No.: -

Sample No:

ABH000083

Overall Sample Assessment

Negative

Your Project Code:

Abner Range NT

Sample Type (as collected): Stream Sediment

Head Weight 37.88 kg

Sample Type (as received): Stream Sediment

Wet Weight kg

Observed Sample Type: MI 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 | | | | | | | | Assessment | Wear | Total particles | No of particles probed |
|----|---|------|------|------|------|-------|-------|-------|------------|------|-----------------|------------------------|
| | +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 | | | | | | | |
| Anatase | | | | | | | | Tr | HA | | | | | | |
| Corundum | | | | | | | | Tr | MA | | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 30 | | | 15 | HA | | | | | | |
| Kyanite | | | | | | Tr | | Tr | HA | | | | | | |
| Leucoxene | | | | Tr | 70 | | | 80 | HA | | | | | | |
| Micrometeorites | | | | | | | | Tr | | | | | | 1 grain. | |
| Phosphate | | | | Tr | Tr | | | Tr | HA | | | | | | |
| Tourmaline | | | | | Tr | | | Tr | HA | | | | | | |
| Zircon | | | | | Tr | | | 5 | HA | | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | | |

What Has Been Observed?

Final Conc Weight 0.09 g | Size Range -0.5+0.2mm

Weight Observed 0.09 g

Technician: JED

Date Observed: 25-Aug-10

Report Printed: 8/09/2010 3:41:21 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.: 10066
Disc No.: -

Sample No: ABH000084

Overall Sample Assessment: **Negative**

Your Project Code: Abner Range NT

Sample Type (as collected): Stream Sediment Head Weight: 46.56 kg
 Sample Type (as received): Stream Sediment Wet Weight: kg
 Observed Sample Type: MI 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 Assessment Wear Total particles No of particles probed

| 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 | | | | | | |
|----|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|
|----|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|

| | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|----|------|----|--|----|--|--|--|--|
| Anatase | | | | | Tr | | | Tr | | HA | | | | |
| Barite | | | | | Tr | | | | | MA | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 25 | | 30 | | | HA | | | | |
| Leucoxene | | | | | 75 | | 70 | | | HA | | | | |
| Phosphate | | | | | Tr | | Tr | | | HA | | | | |
| Rutile | | | | | Tr | | Tr | | | HA | | | | |
| Tourmaline | | | | | Tr | | Tr | | | HA | | | | |
| Zircon | | | | | Tr | Tr | | Tr | | HA | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | |

What Has Been Observed?

Final Conc Weight: 0.12 g Size Range: -0.5+0.2 mm

Weight Observed: 0.12 g

Technician: BJB

Date Observed: 25-Aug-10

Report Printed: 8/09/2010 3:41:46 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.: 10066
Disc No.: -

Sample No: ABH000085

Overall Sample Assessment: **Negative**

Your Project Code: Abner Range NT

Sample Type (as collected): Stream Sediment Head Weight: 25.44 kg
 Sample Type (as received): Stream Sediment Wet Weight: kg
 Observed Sample Type: MI 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 | | | | | | | | Assessment | Wear | Total particles | No of particles probed |
|----|---|------|------|------|------|-------|-------|-------|------------|------|-----------------|------------------------|
| | +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 | | | | | | |

| | | | | | | | | | | | | | | | |
|--------------------|---|---|---|------|------|---|------|---|--|----|--|--|--|--|--|
| Amphibole | | | | | Tr | | Tr | | | LA | | | | | |
| Anatase | | | | | Tr | | | | | MA | | | | | |
| Corundum | | | | | Tr | | Tr | | | HA | | | | | |
| Fe Oxide/Hydroxide | | | | 100 | 20 | | 20 | | | | | | | | |
| Ilmenite | | | | | | | Tr | | | HA | | | | | |
| Kyanite | | | | | Tr | | Tr | | | MA | | | | | |
| Leucoxene | | | | | 5 | | 5 | | | HA | | | | | |
| Phosphate | | | | Tr | Tr | | Tr | | | HA | | | | | |
| Tourmaline | | | | Tr | 75 | | 75 | | | HA | | | | | |
| Zircon | | | | | Tr | | | | | HA | | | | | |
| TOTAL | % | % | % | 100% | 100% | % | 100% | % | | | | | | | |

What Has Been Observed?

Final Conc Weight: 0.13 g Size Range: -0.5+0.2mm
 Weight Observed: 0.13 g

Technician: LF

Date Observed: 20-Aug-10

Report Printed: 8/09/2010 3:42:12 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: