Hole_ID	HoleType	HoleSize	Report_ID	Prospect	Company	Date	Datum	AMG_East	AMG_Nort	AMG_RL	DEPTH	AZIMUTH	DIP
FAT046	PC	89mm		FT	Greatland	20061030	AGD66	445992	5405136	643	21.1	164	-60
FAT047	PC	89mm		FT	Greatland	20061031	AGD66	446111.2	5405085	640	21.1	176	-60
FAT048	PC	89mm		FT	Greatland	20061031	AGD66	446110	5405074	639	21.1	172	-60
FAT049	PC	89mm		FT	Greatland	20061031	AGD66	446138.5	5405064	636	21.1	339	-60
FAT050	PC	89mm		FT	Greatland	20061031	AGD66	446133.2	5405079	638	21.1	4	-60
FAT051	PC	89mm		FT	Greatland	20061031	AGD66	446134.4	5405093	640	21.1	4	-60
FAT052	PC	89mm		FT	Greatland	20061101	AGD66	446151	5405247	657	21.1	47	-60
FAT053	PC	89mm		FT	Greatland	20061101	AGD66	446128	5405223	654	21.1	44	-60
FAT054	PC	89mm		FT	Greatland	20061101	AGD66	446115	5405196	657	21.1	37	-60
FAT055	PC	89mm		FT	Greatland	20061101	AGD66	446410	5404980	620	21.1	100	-60

TRAVERSE R

GREATLAND PTY LTD

HOLE NO : FAT046
Fire Tower West Air Track

Metres From	Metres To	Sample Number	Weath Code	Colour	% Quartz	% Lim/Sulph	Alteration: Sil.	Ser.	CO3	W	Kspar	Geological Log
0	1.3	FW060285	HW	BROWN		SPARSE LIMONITE						1 STRONGLY WEATHERED, FERRUGINOUS, BROWN TO ORANGE - BROWN, FINE - GRAINED, QTZ. RICH, ALTERED VOLCANICLASTIC SILTSTONE ; TITIN SURFICIAL SOIL LAYER.
1.3	3.1		MW	BROWN/ GREY		TRACE PY.						2 MODERATELY TO STRONGLY WEATHERED WEAKLY FERRUGINOUS MOTTLED MEDIUM BROWN - ORANGE TO GREY ALTERED, FINE GRAINED QTZ RICH VOLCANOGENIC SILTSTONE.
3.1	4.9	FW060286	MW	BROWN/ GREEN		TRACE ? APY,						3 WEAKLY TO MODERATELY WEATHERED, BROWN, TO FRESHER, LIGHTEST GREEN, ALTERED, FINE TO VERY FINE - GRAINED QTZ RICH, SERICITISED RHYOLITIC TUFF OR VOLC. SILTSTONE.
4.9	6.7		MW	BROWN/ GREEN		MINOR LIMONITE						4 AS ABOVE, TENDING TO FERRUGINOUS, MODERATELY WEATHERED ; MINOR TO COMMON DARKEST BROWN LIMONITE PARTIALLY TO COMPLETELY REPLACING CHIPS ; RARE TRACE APY, SPECKS.
6.7	8.5	FW060287	SW	DARK GREEN		1-2% PY.						5 AS ABOVE, WEAKLY WEATHERED TO FRESH, DARK GREEN TO BROWN, ALTERED, VERY FINE - GRAINED, QTZ. RICH, VOLCANOGENIC SILTSTONE ; SPARSE PY, I APY. AS MINUTE SPECKS.
8.5	10.3		SW	DARK BROWN/ GREEN		1% APY. ? PY.						6 AS ABOVE, FRESH TO WEAKLY WEATHERED ; ALTERED, LIMONITIC, DARK BROWN TO GREEN, QTZ. RICH VOLCANOGENIC SILTSTONE TO SANDSTONE ; TRACE TO SPARSE APY. ± PY. SPECKS.
10.3	12.1	FW060288	SW	BROWN/ LIGHT GREEN		0.5-1% PY/APY.						7 LITHOLOGY CHANGE ; FRESH TO VERY SLIGHTLY WEATHERED, LIGHTEST GREEN - WHITE, FINE GRAINED, QTZ. RICH ± PHYRIC, ALTERED, SERICITISED VOLCANOGENIC SST. WITH LIMONITIC CHIPS.
12.1	13.9		FR	LIGHT GREEN		Trace apy.						8 AS ABOVE ; FRESH, LIGHTEST GREEN TO GREEN - WHITE, FINE TO VERY FINE - GRAINED, ALTERED, SERICITISED, QTZ. RICH ± PHYRIC VOLCANOGENIC SST. OR RHYOLITIC TUFF - RARE TRACE APY.
13.9	15.7	FW060289	FR	LIGHT GREEN		Trace apy.						9 AS ABOVE ; FRESH, LIGHTEST GREEN TO GREEN - GREY, ALTERED, SERICITISED GROUNDMASS WITH ULTRA FINE - GRAINED QTZ. INTERGROWTHS AND RARE PHENOCRYSTS.
15.7	17.5		FR	GREY GREEN		Trace py/apy						10 AS ABOVE, FRESH, TENDING TO VERY FINE - GRAINED, SERICITISED, QTZ. RICH ± PHYRIC ALTERED RHYOLITIC TUFF OR VOLCANOGENIC SILTSTONE ; RARE TRACES OF PY, I APY. AS SPECKS.
17.5	19.3	FW060290	FR	GREEN GREY	0.5%	Trace py/apy						11 AS ABOVE ; TRACE VEIN QTZ. CUTTING THROUGH SOME ALTERED CHIPS ; TRACE PY. ± APY. AS MINUTE DISSEMINATIONS.
19.3	21.1		FR	LIGHT GREEN/ GREY		Trace py.						12 AS ABOVE, FRESH, HARD LIGHTEST GREEN TO LIGHT GREY, ALTERED, SERICITIC QTZ. RICH, VERY FINE - GRAINED VOLCANOGENIC SANDSTONE TO SILTSTONE ; TRACE 0.3-0.5% PY. AS MINUTE SPECKS ; POSSIBLE APY.

Drilled by **G & G Drilling** Type of Drilling **Air Track** Azimuth / Declination STH / -60°

Logged by **D. Evans** Total Depth 21.1 m

Sampled by **H. Shields** Date Completed 30 /10/06 Collar Co-Ords 445992mE/5405136mN GPS 31/10/06 15:40HR

658mRL

MONDAY 30/10/06

COMMENCED : 15:25 HR

COMPLETED : 16:20 HR

. LE 1 ON TRAVERSE H
(TOP SITE ON RAD DRILLING
TO SOUTH, TWINNING FTD018)

GREATLAND PTY LTD

HOLE NO : FAT047
Fire Tower Air Track

Metres From	Metres To	Sample Number	Weath Code	Colour	% Quartz	% Lim/Sulph	Alteration Sil.	Ser.	CO3	W	Kspar	Geological Log
0	1.3	FW060291	MW	BROWN/GREEN		SPARSE LIMONITE		///				1 MODERATELY WEATHERED, MEDIUM BROWN YELLOW-BROWN TO LIGHT GREEN WEAKLY FERRUGINOUS, VERY FINE-GRAINED, SERICITISED, DEVITRIFIED, RHYOLITIC TUFF.
1.3	3.1		MW	BROWN/GREEN		15-20% LIMONITE		///				2 AS ABOVE; COMMON YELLOW-BROWN LIMONITE COATING FRACTURE PLANES; MINOR DARK BROWN LIMONITE IN MICRO-FRACTURES AND FINE VEINLETS.
3.1	4.9	FW060292	SW	BROWN/GREEN		0.5-1% py.		///				3 AS ABOVE TENDING TO FRESH, MEDIUM BROWN TO LIGHT GREEN GREY-GREEN VERY FINE-GRAINED, SERICITISED, QTZ.-RICH RHYOLITIC TUFF OR VOLCANOGENIC SILTSTONE; TRACE PY.
4.9	6.7		SW	LIGHT GREEN		0.5-1% py ± cpy		///				4 AS ABOVE, FRESH TO WEAKLY WEATHERED LIGHT GREEN GREEN-GREY TO BROWN, VERY FINE-GRAINED, SERICITISED, WEAKLY K-SPAR ALTERED, RHYOLITIC TUFF; TRACE PY. ± APY. AS FINE SPECKS.
6.7	8.5	FW060293	FR	LIGHT GREEN		0.5-1% py ± cpy		///				5 AS ABOVE; FRESH TO VERY WEAKLY WEATHERED, FINE TO VERY FINE-GRAINED QTZ-RICH, SERICITISED VOLCANOGENIC SILTSTONE TO SST; TRACE PY, ± APY, AS MINUTE SPECKS.
8.5	10.3		FR	DARK GREY		1% py.		/				6 SHARP LITHOLOGY CHANGE; FRESH, DARKEST GREY, BLUISH GREY, ALTERED, QTZ. RICH VERY FINE-GRAINED SILTSTONE-SHALE; SPARSE PY. AS FINE DISSEMINATIONS; SULPHIDE SHEEN
10.3	12.1	FW060294	FR	DARK GREY		0.5-1% py.		/				7 AS ABOVE, WITH CHIPS OF LIGHTEST GREEN-GREY, ALTERED, DEVITRIFIED, SERICITISED RHYOLITIC TUFF OR VOLCANOGENIC SILTSTONE; TRACE PY. AS MINUTE SPECKS.
12.1	13.9		FR	LIGHT GREEN		Trace py.		///				8 FRESH, LIGHT GREEN, GREEN-GREY, DEVITRIFIED, SERICITISED VERY FINE-GRAINED RHYOLITIC TUFF OR VOLCANOGENIC SILTSTONE; RARE TRACES OF PY. AS FINE SPECKS.
13.9	15.7	FW060295	FR	LIGHT GREEN		1% py ± cpy.		///				9 FRESH, LIGHT GREEN, GREEN-GREY, VERY FINE-GRAINED QTZ RICH, SERICITIC VOLCANOGENIC SANDSTONE TO SILTSTONE; SPARSE PY ± APY, AS MINUTE SPECKS.
15.7	17.5		FR	LIGHT GREEN		Trace py.		///				10 AS ABOVE, FRESH, LIGHT GREEN, GREEN-GREY, FINE-GRAINED, QTZ. RICH ± ARGILLIC, SERICITIC IMMATURE, VOLCANOGENIC SST.; TRACE PY. AS MINUTE SPECKS.
17.5	19.3	FW060296	FR	LIGHT GREEN		Trace py.		//				11 AS ABOVE, FRESH, LIGHT GREEN, GREEN-GREY, FINE TO MEDIUM-GRAINED, QTZ RICH VOLCANOGENIC SANDSTONE; WEAK K-SPAR ALTERATION.
19.3	21.1		FR	LIGHT GREEN		Trace py/cpy 1 cpy.		//				12 AS ABOVE; VERY WEAK K SPAR ALTERATION; TRACE PY. AS FINE SPECKS, RARE TRACES OF APY. ± CPY. AS FINE CLUSTERS.

Drilled by **G & G Drilling** Type of Drilling **Air Track** Azimuth / Declination STH /-60°

Logged by **D. Evans** Total Depth 21.1 m

Sampled by **H. Shields** Date Completed 31/10/06 Collar Co-Ords 446112mE/5405088mN 665m GPS @ 15:42 31/10/06

31/10/06 (TUESDAY)

commenced : 08:30

completed : 09:20

HOLE 2 ON TRAVERSE H

(BOTTOM SITE ON PAD DRILLING TO NORTH, TURNING FTD 018)

GREATLAND PTY LTD

HOLE NO : FAT048
Fire Tower Air Track

Metres From	Metres To	Sample Number	Weath Code	Colour	% Quartz	% Lim/Sulph	Alteration: Sil.	Ser.	CO3	W	Kspar	Geological Log
0	1.3	FW060297	HW	BROWN		COMMON LIMONITE						1 STRONGLY WEATHERED CLAYEY, FERRUGINOUS DARK BROWN; ORANGE-BROWN, ALTERED, FINE-GRAINED VOLCANICLASTICS; WEATHERED ROCK PROFILE
1.3	3.1		SW	GREY		Trace py.						2 WEAKLY WEATHERED TO FRESH, LIGHT GREY, GREEN-GREY, VERY FINE-GRAINED, SERICITISED WEAKLY K-SPAR ALTERED, QTZ RICH VOLCANOGENIC SANDSTONE; TRACE APY, FI SPECKS,
3.1	4.9	FW060298	FR	LIGHT GREEN		0.5% py ± apy						3 FRESH, HARD TO VERY HARD LIGHTEST GREEN TO GREY-GREEN, FINE TO VERY FINE-GRAINED, SERICITIC, WEAKLY K-SPAR ALTERED, QTZ RICH ± PHYRIC VOLCANOGENIC SANDSTONE.
4.9	6.7		FR	LIGHT GREEN		Trace py-/apy						4 AS ABOVE; WEAKLY K-SPAR ALTERED, SERICITISED QTZ RICH ± PHYRIC + CRYSTAL - PHYRIC VOLCANOGENIC SANDSTONE OR TUFF; IMMATURE, POORLY SORTED, MATRIX-RICH.
6.7	8.5	FW060299	FR	LIGHT GREEN		Trace py/apy						5 AS ABOVE, FRESH, VERY HARD, MODERATELY K-SPAR ALTERED, TENDING TO VERY FINE-GRAINED LIGHT GREEN VOLCANOGENIC SILTSTONE OR TUFF; 0.3-0.5% PY ± APY, AS FINE SPECKS.
8.5	10.3		FR	LIGHT GREEN								6 FRESH, VERY HARD, VERY FINE-GRAINED, LIGHT OLIVE GREEN TO CREAM-GREEN, ALTERED, SERICITIZED QTZ-RICH VOLCANOGENIC SILTSTONE OR TUFF.
10.3	12.1	FW060300*	FR	LIGHT GREEN		Rare trace py.						7 AS ABOVE, WITH FEW CHIPS OF BLACK-BLUE SILTSTONE; RARE TRACES OF PY, AS ULTRA FINE-GRAINED SPECKS.
12.1	13.9		FR	DARK GREY/ BLUE		6.5-1% py.						8 SHARP LITHOLOGY CHANGE, FRESH, HARD, DARKEST BLUE-GREY TO BLUE-BLACK, ALTERED, SILICEOUS VERY FINE-GRAINED SILTSTONE-SHALE; SPARSE PY. AS DISSEMINATIONS AND SMALL CRYSTALS.
13.9	15.7	FW060302	FR	BLUE-BLACK	1-2% vn.	Trace py.						9 AS ABOVE, WITH SPARSE VEIN QTZ ± KSPAR; FRESH, HARD TO VERY HARD, SILICEOUS.
15.7	17.5		FR	GREY-BLACK		Trace py.						10 AS ABOVE, TENDING TO DARKEST GREY-BLACK; RARE TRACES OF PY. AS FINE DISSEMINATIONS AND SPECKS.
17.5	19.3	FW060303	FR	GREY-BLACK		0.5-1% py.						11 AS ABOVE; CONSPICUOUS VERY FINE-GRAINED PY, AS FINE DISSEMINATIONS, RARE CLUSTERS.
19.3	21.1		FR	GREY/ BLACK/ GREEN		Trace py/apy						12 AS ABOVE, WITH COMMON CHIPS OF LIGHT GREEN, ALTERED, SERICITISED, DEVITRIFIED QTZ RICH RHYOLITIC TUFF; GRADATIONAL LITHOLOGY CHANGE THROUGH INTERVAL; WEAK K-SPAR ALTERATION AND VEINING; TRACE FINE PY. ± APY AS SPECKS AND SMALL CLUSTERS.

* FW060301 = DUPLICATE OF FW060300

Drilled by **G & G Drilling** Type of Drilling **Air Track** Azimuth / Declination NTH. | -60°

Logged by **D. Evans** Total Depth 21.1 m

Sampled by **H. Shields** Date Completed 31/10/06 Collar Co-Ords 446110mE | 5405070mN GPS 31/10/06 15:42

663m HT.

31/10/06 (TUESDAY) COMMENCED : 09:46 HR

COMPLETED : 10:30 HR

HOLE 1 ON TRAVERSE I

GREATLAND PTY LTD

HOLE NO : FAT0 49
Fire Tower Air Track

STH. MOST HOLE ON TRAVERSE LINE (OLD GRID, RE-CLEARED)

Metres From	Metres To	Sample Number	Weath Code	Colour	% Quartz	% Lim/Sulph	Alteration Sil.	Ser.	CO3	W	Kspar	Geological Log
0	1.3	FW060304	HW	ORANGE BROWN		COMMON LIMONITE						1 DARK BROWN TO ORANGE-BROWN, VERY STRONGLY WEATHERED, FERRUGINOUS, CLAYEY DECOMPOSED VOLCANICLASTIC SOIL AND WEATHERED ROCK PROFILE
1.3	3.1		MW	BROWN/ GREEN GREY		MINOR LIMONITE						2 MODERATELY WEATHERED, BROWN TO YELLOWISH BROWN, DARK GREY AND LIGHT GREEN, MEDIUM FERRUGINOUS, ALTERED, VERY FINE-GRAINED SILICEOUS SILTSTONE.
3.1	4.9	FW060305	SW	BROWN/ GREY		1-2% py.						3 WEAKLY WEATHERED TO FRESH, BROWN TO DARK GREY, BLUISH-GREY ALTERED, FINE TO VERY FINE-GRAINED, SILICEOUS VOLCANICLASTIC SILTSTONE; SPARSE PY. AS SPECKS + CLUSTERS
4.9	6.7		FR	LIGHT GREEN		0.5% py.						4 WEAKLY WEATHERED TO FRESH, LIGHT GREEN TO GREEN-GREY, SERICITISED, FINE TO VERY FINE-GRAINED, QTZ-RICH, VOLCANOGENIC SILTSTONE TO SANDSTONE OR TUFF; FINE PY.
6.7	8.5	FW060306	FR	LIGHT GREEN		1-2% py/apy						5 FRESH, HARD, LIGHT OLIVE GREEN TO GREY-GREEN, VERY FINE-GRAINED, ALTERED, SERICITISED, MODERATELY K-SPAR FLOODED, QTZ RICH VOLCANOGENIC SILTSTONE - SST; DISSEMINATED PY/APY.
8.5	10.3		FR	GREY/ GREEN		1% py/ apy						6 AS ABOVE, HARD TO VERY HARD LIGHT GREY TO GREEN-GREY, K-SPAR FLOODED, QTZ RICH FINE TO VERY FINE-GRAINED VOLCANOGENIC SANDSTONE/SILTSTONE.
10.3	12.1	FW060307	FR	GREEN/ GREY		Trace py.						7 AS ABOVE, FRESH, HARD TO VERY HARD LIGHT GREEN TO GREY-GREEN, K-SPAR FLOODED; TRACE PY + APY AS ULTRA FINE-GRAINED CLUSTERS AND AGGREGATES.
12.1	13.9		FR	GREEN/ MINI GREY		Trace apy/cpy						8 AS ABOVE, TRACE 0.3-0.5% APY + ?CPY, AS MINUTE CLUSTERS, ULTRA FINE-GRAINED; STRONG K-SPAR AS SEMI-PERVASIVE ALTERATION.
13.9	15.7	FW060308	FR	GREEN		Trace apy						9 AS ABOVE; TENDING TO VERY FINE-GRAINED, SERICITISED, K-SPAR ALTERED QTZ RICH VOLCANOGENIC SILTSTONE TO FINE RHYOLITIC TUFF; RARE TRACES OF APY AS FINE SPECKS.
15.7	17.5		FR	LIGHT GREEN		Rare tr. apy						10 AS ABOVE; FRESH, HARD LIGHT GREEN TO GREY-GREEN, SERICITISED, K-SPAR ALTERED, QTZ RICH VOLCANOGENIC SILTSTONE TO FINE RHYOLITIC TUFF.
17.5	19.3	FW060309	FR	GREEN/ GREY								11 AS ABOVE; FRESH, LIGHT TO MEDIUM OLIVE GREEN, GREY-GREEN, SERICITIZED, WEAKLY K-SPAR ALTERED, VERY FINE-GRAINED QTZ RICH VOLCANOGENIC SILTSTONE.
19.3	21.1		FR	GREEN/ GREY		Trace apy						12 AS ABOVE; FRESH, HARD, LIGHT GREEN, GREY-GREEN, SERICITISED, MODERATELY K-SPAR ALTERED, FINE TO VERY FINE-GRAINED QTZ RICH, VOLCANOGENIC SILTSTONE TO SST OR TUFF; RARE TRACES OF APY. AS ULTRA FINE-GRAINED SPECKS.

Drilled by **G & G Drilling** Type of Drilling **Air Track** Azimuth / Declination NTH | -60° 325°MAG

Logged by **D. Evans** Total Depth 21.1 m

Sampled by **H. Shields** Date Completed 31/10/06 Collar Co-Ords 446140mE/5405060mN GPS 15:45 hr 31/10/06

655m HR

31/10/06 (TUE) COMMENCED : 11:50 HR

COMPLETED : 12:45 HR

...LE 2 ON TRAVERSE I

FAT049 + ≈15M NTH UP HILL

GREATLAND PTY LTD

HOLE NO : FAT0 50

Fire Tower Air Track

Metres From	Metres To	Sample Number	Weath Code	Colour	% Quartz	% Lim/Sulph	Alteration Sil.	Ser.	CO3	W	Kspar	Geological Log
0	1.3	FW060310	MW	BROWN/ MOTTLED GREY		10-15% LIMONITE						MODERATELY WEATHERED, COLOUR MOTTLED, BROWN TO DARK GREY, LIGHT GREEN) 1 FERRUGINOUS, ALTERED, FINE-GRAINED QTZ RICH VOLCANICLASTIC; THIN SIL PROFILES.
1.3	3.1		HW	BROWN/ GREEN		5% LIMONITE						MODERATELY TO STRONGLY WEATHERED, MOTTLED, YELLOWISH-BROWN TO LIGHT GREEN, 2 WEAKLY FERRUGINOUS, SERICITISED, FINE TO VERY FINE-GRAINED VOLCANICLASTIC SILTSTONE.
3.1	4.9	FW060311	MW	BROWN/ TAWN		2-5% LIMONITE						AS ABOVE; FINE TO VERY FINE-GRAINED, ALTERED, SERICITISED, QTZ RICH; 3 TRACE APY AS FINE CLUSTERS AND DISSEMINATIONS,
4.9	6.7		MW	TAWN/ GREEN/ GREY		2% LIMONITE						AS ABOVE, MODERATELY TO WEAKLY WEATHERED, COLOUR-MOTTLED; FEW CHIPS OF 4 ALTERED RHYOLITIC TUFF OR POSSIBLE RHYOLITE; RARE TRACES OF ? APY.
6.7	8.5	FW060312	MW	ORANGE BROWN		2% LIMONITE						AS ABOVE, MODERATELY WEATHERED, COLOUR-MOTTLED, WEAKLY FERRUGINOUS, WITH 5 BROWN LIMONITE / CLAY COATING FRACTURES; FINE-GRAINED ALTERED VOLCANICLASTIC SILTSTONE
8.5	10.3		SW	BROWN/ GREEN		2% LIMONITE						AS ABOVE, TENDING TO WEAKLY WEATHERED AND FRESH; RARE TRACES OF APY. 6 AS MINUTE SPECKS AND DISSEMINATIONS; VERY FINE-GRAINED VOLCANOGENIC SILTSTONE
10.3	12.1	FW060313	SW	LIGHT GREEN/ GREY		TRACE LIMONITE						AS ABOVE, TENDING TO FRESH, LIGHT GREEN, GREY-GREEN, SERICITISED WEAKLY K-SPAR 7 ALTERED, FINE TO VERY FINE-GRAINED, QTZ RICH RHYOLITIC TUFF OR VOLC. SILTSTONE.
12.1	13.9		FR	LIGHT GREEN		TRACE APY.						AS ABOVE, FRESH LIGHTEST GREEN TO GREY-GREEN, ALTERED, SERICITISED WEAKLY 8 TO MODERATELY K SPAR ALTERED, FINE GRAINED RHYOLITIC TUFF OR VOLCANOGENIC SILTSTONE.
13.9	15.7	FW060314	FR	DARK GREY/BLUE		TRACE PY.						LITHOLOGY CHANGE; FRESH, VERY DARK GREY-BLACK TO BLUE, VERY FINE-GRAINED, 9 ALTERED, SILICEOUS VOLCANICLASTIC SILTSTONE; TRACE PY, ± APY. SPECKS
15.7	17.5		FR	DARK BLUE/ GREY		TRACE PY.						AS ABOVE; FRESH, DARKEST GREY-BLUE TO BLUE-BLACK, VERY FINE-GRAINED, 10 SILICEOUS VOLCANICLASTIC SILTSTONE; SPARSE CARBONATE VEINLETS WITH PY. SPECKS.
17.5	19.3	FW060315	FR	DARK GRY/ GREEN		~~RARE~~						AS ABOVE, GRADING INTO LIGHT GREEN, ALTERED, SERICITISED, VERY FINE-GRAINED 11 QTZ-RICH IMMATURE VOLCANOGENIC SILTSTONE TO SANDSTONE.
19.3	21.1		FR	LIGHT GREEN		RARE TRACE PY.						FRESH, HARD, GREY TO LIGHT GREEN, ALTERED, SERICITISED, FINE TO VERY 12 FINE-GRAINED QTZ. RICH VOLCANOGENIC SILTSTONE; RARE TRACES OF PY. AS FINE SPECKS.

Drilled by **G & G Drilling** Type of Drilling **Air Track** Azimuth / Declination NTH. | -60° 350° MAG

Logged by **D. Evans** Total Depth 21.1 m

Sampled by **H. Shields** Date Completed 31/10/06 Collar Co-Ords 446137 mE | 5405075 mN GPS 31/10/06 15:46 hr

653m RL.

31/10/06 (TUE) COMMENCED : 13:30 HR

COMPLETED : 14:15 HR

HOLE 3 ON TRAVERSE I

FAT 050 + 15m NTH TOWARDS TRACK

GREATLAND PTY LTD

HOLE NO : FATO51
Fire Tower Air Track

Metres From	Metres To	Sample Number	Weath Code	Colour	% Quartz	% Lim/Sulph	Alteration Sil.	Ser.	CO3	W	Kspar	Geological Log
0	1.3	FW060316	HW	BROWN		20% LIMONITE						1 STRONGLY WEATHERED BROWN, EARTH ORANGE-BROWN, FERRUGINOUS, CLAYEY, FINE-GRAINED VOLCANICLASTIC; THIN SOIL PROFILE AND WEATHERED ROCK.
1.3	3.1		HW	YELLOW BROWN		10-15% LIMONITE						2 STRONGLY TO MODERATELY WEATHERED, WEAKLY FERRUGINOUS, YELLOW-BROWN TO GREEN-BROWN VERY FINE-GRAINED, SERICITIC QTZ. RICH VOLCANOGENIC SILTSTONE.
3.1	4.9	FW060317	HW	BROWN/ YELLOW		15-20% LIMONITE						3 AS ABOVE; STRONGLY WEATHERED, MODERATELY FERRUGINOUS ALTERED, VERY FINE-GRAINED, SERICITIC QTZ RICH VOLCANOGENIC SILTSTONE.
4.9	6.7		HW	BROWN/ GREEN		10-15% LIMONITE						4 AS ABOVE; MODERATELY TO STRONGLY WEATHERED; MOD ERATELY FERRUGINOUS WITH YELLOW BROWN LIMONITE PARTIALLY TO COMPLETELY REPLACING.
6.7	8.5	FW060318	MW	YELLOW/ GREEN		2-5% LIMONITE						5 AS ABOVE; WEAKLY TO MODERATELY WEATHERED; WEAKLY FERRUGINOUS.
8.5	10.3		MW	YELLOW/ BROWN		5-10% LIMONITE						6 AS ABOVE, TENDING TO STRONGLY WEATHERED, COARSER-GRAINED, WITH LIMONITE PARTIALLY TO COMPLETELY REPLACING.
10.3	12.1	FW060319	MW	YELLOW BROWN		2-5% LIMONITE						7 AS ABOVE, STRONGLY TO MODERATELY WEATHERED, YELLOW-BROWN FERRUGINOUS ALTERED, QTZ RICH VOLCANOGENIC SANDSTONE TO SILTSTONE; HIGH CLAY PROPORTION
12.1	13.9		MW	YELLOW BROWN		2-5% LIMONITE						8 AS ABOVE, WITH FEW CHIPS OF FRESHER, ALTERED, IMMATURE, FINE-GRAINED, VOLCANOGENIC SILTSTONE TO RHYOLITIC TUFF.
13.9	15.7	FW060320*	SW	BLUE/ GREY								9 FRESH, LIGHT BLUISH-GREY, ALTERED, IMMATURE, SERICITISED, QTZ. RICH ± PHYRIC FINE-GRAINED VOLCANOGENIC SANDSTONE.
15.7	17.5		FR	LIGHT GREY		RARE TRACE APY.						10 AS ABOVE, FRESH, LIGHT GREY TO BLUISH-GREY, ALTERED, IMMATURE, SERICITISED, QTZ. RICH + QTZ PHYRIC VOLCANOGENIC SANDSTONE
17.5	19.3	FW060322	FR	LIGHT GREY								11 AS ABOVE; POSSIBLE VOLCANICLASTIC WACKE WITH SOME DARK GREY LITHIC CLASTS?.
19.3	21.1		FR	LIGHT GREY/ GREEN								12 AS ABOVE; FRESH, WEAKLY ALTERED, QTZ. RICH, FINE TO MEDIUM-GRAINED, VOLCANICLASTIC WACKE TO IMMATURE VOLCANOGENIC SANDSTONE.

* FW060321 = DUPLICATE OF FW060320

FW060322 = STANDARD INSERTED.

Drilled by **G & G Drilling** Type of Drilling **Air Track** Azimuth / Declination NORTH / -60° 350° MAG

Logged by **D. Evans** Total Depth 21.1 m

Sampled by **H. Shields** Date Completed 31/10/06 Collar Co-Ords 446140mE/5405067mN GPS 31/10/06 15:48

669m RL

31/10/06 (TUE) COMMENCED : 14:30 HR

COMPLETED : 15:10 HR

HOLE 1 ON TRAVERSE M

NORTHERN MOST HOLE

GREATLAND PTY LTD

HOLE NO : FAT052

Fire Tower Air Track

Metres From	Metres To	Sample Number	Weath Code	Colour	% Quartz	% Lim/Sulph	Alteration Sil.	Ser.	CO3	W	Kspar	Geological Log
0	1.3	FW060324	MW	BROWN		SPARSE LIMONITE						1 MODERATELY TO STRONGLY WEATHERED, MEDIUM BROWN, WEAKLY FERRUGINOUS, CHALKY, FINE TO VERY FINE - GRAINED VOLCANICLASTIC, WEATHERED ROCK PROFILE
1.3	3.1		MW	FAWN/ BROWN		TRACE LIMONITE						2 MODERATELY TO WEAKLY WEATHERED, LIGHT BROWN, FAWN TO DULL KHAKI, FINE - GRAINED, MATURE, QTZ - RICH VOLCANICLASTIC SANDSTONE. TRACE BLACK LIMONITE ON FRACTURE PLANES.
3.1	4.9	FW060325	MW	BROWN/ KHAKI		TRACE LIMONITE						3 AS ABOVE, MODERATELY WEATHERED, BROWN, KHAKI - GREEN TO PINK - RED, ALTERED, FINE TO VERY FINE - GRAINED, MATURE, WELL - SORTED VOLCANICLASTIC SANDSTONE. SPARSE HEMATITE/SERICITE
4.9	6.7		SW	KHAKI/ GREEN								4 WEAKLY WEATHERED, DULL KHAKI TO GREEN, WEAKLY ALTERED, WELL - SORTED, FINE - GRAINED QTZ - RICH VOLCANICLASTIC SANDSTONE TO WACKE.
6.7	8.5	FW060326	SW	KHAKI/ BROWN		TRACE LIMONITE						5 AS ABOVE, TENDING TO FRESH, DULL KHAKI - BROWN, FINE TO VERY FINE - GRAINED, MATURE, WELL - SORTED QTZ RICH VOLCANICLASTIC SANDSTONE SANDSTONE TO WACKE.
8.5	10.3		SW	KHAKI		TRACE LIMONITE						6 AS ABOVE; VERY WEAK POSSIBLE K - SPAR ALTERATION; TENDING TO POORLY SORTED, MATRIX - RICH WACKE.
10.3	12.1	FW060327	SW	BROWN/ GREY								7 WEAKLY WEATHERED DULL BROWN - KHAKI, TO FRESH, LIGHT BLUISH - GREY, WEAKLY ALTERED, FINE TO VERY FINE - GRAINED, IMMATURE, QTZ RICH VOLCANICLASTIC WACKE.
12.1	13.9		SW	BROWN/ FAWN								8 WEAKLY WEATHERED DULL BROWN - FAWN TO GREY, WEAKLY ALTERED FINE TO VERY FINE - GRAINED, IMMATURE, QTZ - RICH VOLCANICLASTIC WACKE TO SANDSTONE.
13.9	15.7	FW060328	SW	FAWN/ GREY								9 AS ABOVE, WITH FEW CHIPS OF FRESH, LIGHT GREY TO BLUISH GREY, VERY FINE - GRAINED QTZ RICH VOLCANICLASTIC SANDSTONE TO WACKE; RARE K - FELDSPAR LATHS/CLOTS.
15.7	17.5		SW	FAWN/ GREY								10 AS ABOVE TENDING TO FRESH LIGHT BLUISH - GREY TO GREEN - GREY, VERY FINE - GRAINED, IMMATURE, VOLCANICLASTIC SANDSTONE TO SILTSTONE.
17.5	19.3	FW060329	SW	KHAKI/ BROWN								11 AS ABOVE, WEAKLY WEATHERED, SLIGHTLY MOTTLED ALTERED, FINE - GRAINED, IMMATURE, QTZ RICH VOLCANICLASTIC SANDSTONE OR WACKE; WEAK K - SPAR ALTERATION.
19.3	21.1		SW	KHAKI/ BROWN								12 AS ABOVE; DULL KHAKI - BROWN, ALTERED, CHLORITIC/SERICITIC, FINE - GRAINED, IMMATURE, QTZ - RICH VOLCANICLASTIC SANDSTONE OR WACKE.

Drilled by **G & G Drilling** Type of Drilling **Air Track** Azimuth / Declination NORTH / -60°

Logged by **D. Evans** Total Depth 21.1 m

Sampled by **H. Shields** Date Completed 01/10/06 Collar Co-Ords

01/11/06 (WEDNESDAY)

COMMENCED : 08:20 HR

COMPLETED : 09:05 HR

HOLE 2 ON TRAVERSE M
(HOLE FAT052 + 30M TO SOUTH)

GREATLAND PTY LTD

HOLE NO : FAT053
Fire Tower Air Track

Metres From	Metres To	Sample Number	Weath Code	Colour	% Quartz	% Lim/Sulph	Alteration Sil.	Alteration Ser.	Alteration CO3	Alteration W	Alteration Kspar	Geological Log
0	1.3	FW060330	MW	MOTTLED BROWN								MODERATELY WEATHERED, COLOUR MOTTLED, LIGHT TO MEDIUM BROWN, FAWN AND GREY, WEAKLY FERRUGINOUS, VERY FINE - GRAINED, MOD - SILICIFIED QTZ RICH VOLCANICLASTIC SILTSTONE - WACKE.
1.3	3.1		MW	FAWN/ GREY								MODERATELY TO WEAKLY WEATHERED, LIGHT BROWN, FAWN AND DARK GREY, WEAKLY ALTERED, FINE TO VERY FINE - GRAINED, QTZ RICH VOLCANICLASTIC SILTSTONE TO WACKE.
3.1	4.9	FW060331	SW	FAWN/ GREY		Trace ?gyp						AS ABOVE, TENDING TO WEAKLY WEATHERED, INTERMIXED FAWN AND MEDIUM TO DARK GREY, VERY FINE - GRAINED, QTZ - RICH VOLCANICLASTIC SILTSTONE TO WACKE.
4.9	6.7		SW	BROWN		Trace limonite						WEAKLY TO MODERATELY WEATHERED, DULL, DARK BROWN, ALTERED, SERICITIC/HEMATITIC (? AFTER CARBONATE) FINE - GRAINED QTZ - RICH VOLCANICLASTIC SANDSTONE.
6.7	8.5	FW060332	SW	BROWN		Trace limonite						AS ABOVE; TENDING TO MODERATELY WEATHERED, DULL, MEDIUM TO DARK BROWN, WEAKLY ALTERED, QTZ - RICH, FINE - GRAINED VOLCANICLASTIC SANDSTONE.
8.5	10.3		SW	KHAKI/ BROWN								AS ABOVE; DULL, MEDIUM TO DARK KHAKI - BROWN, ALTERED (POSSIBLY K-SPAR), FINE - GRAINED, QTZ - RICH VOLCANICLASTIC SANDSTONE.
10.3	12.1	FW060333	SW	BROWN/ GREY								WEAKLY WEATHERED, TENDING TO FRESH, DULL BROWN - KHAKI TO GREY - GREEN, WEAKLY ALTERED, VERY FINE - GRAINED QTZ RICH VOLCANICLASTIC SANDSTONE TO SILTSTONE.
12.1	13.9		FR	GREEN/ KHAKI								FRESH TO VERY WEAKLY WEATHERED, DULL GREEN - KHAKI, WEAKLY ALTERED (POSSIBLY K-SPAR ALTERED) FINE TO VERY FINE - GRAINED VOLCANICLASTIC SANDSTONE TO SILTSTONE.
13.9	15.7	FW060334	FR	KHAKI/ BROWN								AS ABOVE; DULL, DARK KHAKI - BROWN, WEAKLY ALTERED, FINE - GRAINED, QTZ - RICH, IMMATURE VOLCANICLASTIC SANDSTONE TO SILTSTONE.
15.7	17.5		FR	KHAKI/ GREY								AS ABOVE WITH CHIPS OF FRESH, BLUISH - GREY, VERY FINE - GRAINED, VOLCANICLASTIC SILTSTONE TO SANDSTONE; SLIGHTLY DAMP CLAY FRACTION.
17.5	19.3	FW060335	FR	KHAKI								AS ABOVE, DULL DARK KHAKI TO KHAKI - BROWN, WEAKLY ALTERED, FINE TO VERY FINE - GRAINED, QTZ RICH, IMMATURE VOLCANICLASTIC SANDSTONE TO WACKE.
19.3	21.1		FR	KHAKI/ GREY								AS ABOVE, DULL, DARK KHAKI TO KHAKI - GREEN AND GREY; POSSIBLY WEAKLY K-SPAR ± CARBONATE ALTERED; FINE TO VERY FINE - GRAINED, IMMATURE QTZ - RICH VOLCANICLASTIC SANDSTONE TO SILTSTONE
												DAMP TO WET AT EOH

Drilled by **G & G Drilling** Type of Drilling **Air Track** Azimuth / Declination NORTH / -60°

Logged by **D. Evans** Total Depth 21.1 m

Sampled by **H. Shields** Date Completed 01/10/06 Collar Co-Ords

01/10/06 (WED)

COMMENCED: 09:20 hr
COMPLETED: 10:00 hr

HOLE 3 ON TRAVERSE M
(SOUTHERNMOST HOLE, AT JUNCTION WITH MAIN FIRETOWER JUNCTION TRACK)

GREATLAND PTY LTD

HOLE NO : FAT0 54
Fire Tower Air Track

Metres From	Metres To	Sample Number	Weath Code	Colour	% Quartz	% Lim/Sulph	Alteration Sil.	Ser.	CO3	W	Kspar	Geological Log
0	1.3	FW 060336	HW	BROWN/ ORANGE								1 VERY STRONGLY WEATHERED, FERRUGINOUS, DARK BROWN TO ORANGE-BROWN, ALTERED, FINE-GRAINED VOLCANICLASTIC; WEATHERED ROCK PROFILE.
1.3	3.1		HW	BROWN		TRACE LIMONITE						2 STRONGLY TO MODERATELY WEATHERED, CLAYEY, FERRUGINOUS, DULL DARK BROWN TO KHAKI-BROWN, ALTERED, FINE GRAINED VOLCANICLASTIC SANDSTONE; ? HEMATITIC AFTER CHLORITE
3.1	4.9	FW 060337	MW	BROWN/ KHAKI		MINOR LIMONITE						3 AS ABOVE; MODERATELY WEATHERED, DULL DARK BROWN TO KHAKI-BROWN, CLAYEY, FERRUGINOUS, ALTERED, FINE-GRAINED SST. RICH VOLCANICLASTIC SST; ABUNDANT CLAY,
4.9	6.7		MW	BROWN/ KHAKI		MINOR LIMONITE						4 AS ABOVE; HEMATITIC/SERICITIC, POSSIBLY AFTER CHLORITE OR FE-CARBONATE; MINOR BLACK LIMONITE PARTIALLY TO COMPLETELY REPLACING.
6.7	8.5	FW 060338	MW	BROWN/ KHAKI		SPARSE LIMONITE						5 AS ABOVE, MODERATELY TO WEAKLY WEATHERED, DULL, DARK KHAKI TO KHAKI-BROWN; SERICITIC/HEMATITIC POSSIBLY AFTER CHLORITE OR FE-CARBONATE; ABUNDANT CLAY.
8.5	10.3		SW	KHAKI		TRACE LIMONITE						6 AS ABOVE, TENDING TO FRESH MODERATELY ALTERED, DULL, DARK KHAKI; ABUNDANT FINE CLAY FRACTION IN SAMPLE.
10.3	12.1	FW 060339	SW	KHAKI/ BLUE GREY								7 WEAKLY WEATHERED TO FRESH, KHAKI TO BLUISH-GREY, ALTERED, CHLORITIC/SERICITIC, FINE-GRAINED, QTZ-RICH, IMMATURE VOLCANICLASTIC SANDSTONE? to WACKE.
12.1	13.9		FR	BLUE/ GREEN		0.1-0.3% PY.						8 FRESH, DARK BLUISH-GREEN, ALTERED, CHLORITIC/SERICITISED VERY FINE-GRAINED VOLCANICLASTIC SILTSTONE TO FINE LITHIC QTZ-RICH WACKE.
13.9	15.7	FW 060340*	FR	KHAKI/ GREEN		RARE TRACE PY						9 FRESH TO WEAKLY WEATHERED, DULL DARK KHAKI-GREEN, ALTERED, SERICITIC/CHLORITIC FINE-GRAINED, QTZ-RICH, IMMATURE VOLCANICLASTIC SANDSTONE.
15.7	17.5		FR	BROWN/ KHAKI								10 AS ABOVE, TENDING TO MODERATELY WEATHERED, DULL, DARK BROWN YOWNISH-BROWN TO KHAKI, ALTERED, FINE-GRAINED QTZ I LITHIC RICH VOLCANICLASTIC SANDSTONE.
17.5	19.3	FW 060342	FR	KHAKI/ GREEN		SPARSE LIMONITE						11 AS ABOVE, TENDING TO WEAKLY WEATHERED, WITH SPARSE TO MINOR BLACK LIMONITE IN MICRO-FRACTURES.
19.3	21.1		FR	KHAKI/ BLUE-GREEN		SPARSE ?PY.						12 AS ABOVE, TENDING TO MODERATELY ALTERED, CHLORITIC, CLAYEY, KHAKI-BROWN TO FRESH, BLUISH-GREEN, FINE-GRAINED, QTZ-RICH VOLCANICLASTIC SANDSTONE TO WACKE. - containing magnetite - almost unaltered

* FW 060341 = DUPLICATE OF FW 060340.

Drilled by **G & G Drilling** Type of Drilling **Air Track** Azimuth / Declination NORTH / -60°

Logged by **D. Evans** Total Depth 21.1 m

Sampled by **H. Shields** Date Completed / /10/06 Collar Co-Ords

01/11/06 (WDO)

COMMENCED : 10:45 HR
COMPLETED : 11:25 HR

EX A HOLE AT E END OF TRAVERSE

GREATLAND PTY LTD

HOLE NO : FAT055
Fire Tower West Air Track

Metres From	Metres To	Sample Number	Weath Code	Colour	% Quartz	% Lim/Sulph	Alteration: Sil.	Ser.	CO3	W	Kspar	Geological Log
0	1.3	FW060343	SW	CREAM/BROWN		0.5%, py/apy						1 WEAKLY WEATHERED, HARD, WEAKLY FERRUGINOUS, CREAM TO TAWN BROWN, SERICITISED, DEVITRIFIED RHYOLITE ; TRACE PY ± APY AS MINUTE SPECKS.
1.3	3.1		SW	ORANGE/GREY		1% py.						2 WEAKLY TO MODERATELY WEATHERED, ORANGE-BROWN TO LIGHT GREY, ALTERED, SERICITISED, DEVITRIFIED, FINE-GRAINED RHYOLITE OR RHYOLITIC TUFF; SPARSE PY, AS FINE SPECKS.
3.1	4.9	FW060344	FR	ORANGE/GREY		1-2% py±apy						3 AS ABOVE, BUT FRESH TO VERY WEAKLY WEATHERED; ALTERED, DEVITRIFIED, VERY FINE-GRAINED, LIGHT TO MEDIUM GREY, RHYOLITE OR RHYOLITIC TUFF; CONSPICUOUS FINE PY ± APY.
4.9	6.7		MW	YELLOW BROWN		1% py.						4 WEAKLY TO MODERATELY WEATHERED, FERRUGINOUS, ALTERED YELLOW-BROWN TO FRESH LIGHT GREY, FINE-GRAINED QTZ PHYRIC RHYOLITE OR TUFF; SPARSE PY, ± APY.
6.7	8.5	FW060345	MW	YELLOW BROWN		1% py ± apy.						5 AS ABOVE WITH INCREASING FRESH, LIGHT TO MEDIUM GREY, SILICIFIED, SERICITIC DEVITRIFIED RHYOLITE OR TUFF; SPARSE PY, AS MINUTE SPECKS AND CRYSTALS.
8.5	10.3		SW	ORANGE/GREY		1-2% py.						6 FRESH TO VERY WEAKLY WEATHERED, ORANGE-BROWN TO GREY-GREEN, ALTERED, FINE TO ULTRA FINE-GRAINED ~~PY~~ QTZ RICH RHYOLITE OR RHYOLITIC TUFF; SPARSE PY, ± APY. SPECKS
10.3	12.1	FW060346	MW	ORANGE GREY		1% py ± apy.						7 AS ABOVE, BUT MORE WEATHERED; QTZ PHYRIC TO MASSIVE QTZ-RICH, RHYOLITE OR RHYOLITIC TUFF; FINE PY ± APY, AS SMALL CLUSTERS AND MINUTE DISSEMINATIONS.
12.1	13.9		SW	BROWN/GREY		1-2% py.						8 AS ABOVE, TENDING TO FRESH, ORANGE-BROWN TO LIGHT GREY, VERY FINE GRAINED DEVITRIFIED MASSIVE, QTZ-RICH RHYOLITE OR RHYOLITIC TUFF; SPARSE-MINOR PY, AS SPECKS.
13.9	15.7	FW060347	SW	GREY/WHITE		2-5% py.						9 AS ABOVE, FRESH TO WEAKLY WEATHERED, ORANGE-BROWN TO LIGHT GREY AND WHITE, VERY FINE-GRAINED QTZ RICH ± PHYRIC RHYOLITE OR RHYOLITIC TUFF; CONSPICUOUS PY.
15.7	17.5		SW	CREAM/GREY		2-3% py ± apy						10 AS ABOVE, WITH HIGH VOLUME CLAY FRACTION; FRESH, LIGHT GREY, VERY FINE-GRAINED WEAKLY K-SPAR ALTERED, MASSIVE QTZ RICH RHYOLITE OR TUFF; CONSPICUOUS FINE PY, SPECKS.
17.5	19.3	FW060348	FR	GREY		5% py.						11 AS ABOVE, FRESH TO VERY WEAKLY WEATHERED; LIGHT GREY TO GREY-GREEN, VERY FINE-GRAINED, ALTERED, QTZ-RICH MASSIVE RHYOLITE OR TUFF; CONSPICUOUS FINE PY/APY.
19.3	21.1		FR	LIGHT GREY		1-2% py ± apy.						12 FRESH, HARD, LIGHT GREY TO GREY-GREEN, VERY FINE-GRAINED, WEAKLY K-SPAR ALTERED, QTZ-RICH, MASSIVE TO QTZ-PHYRIC, ALTERED RHYOLITE OR RHYOLITIC TUFF; CONSPICUOUS PY, ± APY, AS MINUTE SPECKS AND FINE CLUSTERS.
												PAMP TO WET AT EOH.
												END OF PROGRAM.

Drilled by **G & G Drilling** Type of Drilling **Air Track** Azimuth / Declination EAST / -60°

Logged by **D. Evans** Total Depth 21.1 m

Sampled by **H. Shields** Date Completed 1 /10/06 Collar Co-Ords

01/11/06 (WOD).

COMMENCED : 12:20
COMPLETED : 13:20