



TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 1A - Mokolo Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2-01

X COORD: 2,264,504

Y COORD: WG27 -28,370

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.0		Loose, silty SAND. Slightly moist, brown, topsoil.				
0.4	0.40					
0.5		Loose, silty SAND. Moist, orange, transported.				
1.0						
1.5						
2.0						
2.5						
3.0	3.00					
3.0		Refusal on FERRICRETE/SANDSTONE.				
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0.3 - 3.0m.

3: No samples.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 24 April 2009

PROFILED BY: rr



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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/02

X COORD: 2,628,971

Y COORD: WG27 -29,077

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.30	0.30	Loose, silty SAND. Moist, brown, topsoil.				
0.5		Loose, silty SAND. Moist, orange and brown, transported.				
1.0						
1.5						
2.0						
2.30	2.30	Refusal on strongly cemented FERRICRETE.				
2.5						
3.0						
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0.3 - 2.3m.

3: Sample P2/02/1 at 0 - 0.3m; P2/02/2 at 0.3 - 2.3m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 29 April 2009

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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/03

X COORD: 2,632,022

Y COORD: WG27 -32,306

ELEVATION:

PAGE 1 of 1

Depth			Description	Dynamic Probe Light Equivalent SPT-N			
				10	20	30	40
		0.00	Ground Surface				
0.0			Loose, silty SAND. Slightly moist to moist, brown, topsoil.				
		0.30					
0.5			Loose, silty SAND. Moist, orange and brown, transported.				
1.0		1.10					
			Cemented to strongly cemented FERRICRETE. Nodular.				
1.5		1.50					
			Refusal on FERRICRETE.				
2.0							
2.5							
3.0							
3.5							
4.0							
4.5							

NOTES 1: Nil seepage.

2: Re-usable 0.3 - 1.1m.

3: No samples.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/04

X COORD: 2,634,512
Y COORD: WG27 -36,215
ELEVATION:
PAGE 1 of 1

Depth			Description	Dynamic Probe Light Equivalent SPT-N			
				10	20	30	40
0.0		0.00	Ground Surface				
0.0		0.30	Loose, silty SAND. Slightly moist to moist, grey and brown, topsoil.				
0.5		0.50	Cemented to strongly cemented CALCRETE.				
0.5			Refusal on CALCRETE.				
1.0							
1.5							
2.0							
2.5							
3.0							
3.5							
4.0							
4.5							

NOTES 1: Nil seepage.
2: Nil re-usable.
3: No samples.
4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/05

X COORD: 2,639,094

Y COORD: WG27 -36,734

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.5	0.50	Loose, silty SAND. Slightly moist to moist, brown, topsoil.				
1.0		Loose to medium dense, silty SAND. Slightly moist to moist, orange and brown, transported.				
1.5	1.60	Very weakly to weakly cemented CALCRETE. Slightly moist, light brown sand.				
2.0						
2.5						
3.0	2.90	Effective refusal - very slow progress.				
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0.5 - 1.6m.

3: Sample P2/05/1 at 0 - 0.5m; P2/05/2 at 0.5 - 1.6m; P2/05/3 at 1.6 - 2.9m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/06

X COORD: 2,641,308

Y COORD: WG27 -39,743

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.3	0.30	Loose, silty SAND. Slightly moist, brown, topsoil.				
0.5		Loose, silty SAND. Moist, red and orange, transported.				
1.0						
1.5						
2.0						
2.5						
3.0	3.20	Very weakly to weakly cemented FERRICRETE. Nodular, moist with light brown and grey sand.				
3.5	3.80	Termination at machine capacity.				
4.0						
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0.3 - 3.2m.

3: Sample P2/06/1 at 0 - 0.3m; P2/06/2 at 0.3 - 3.2m; P2/06/3 at 3.2 - 3.8m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/07

X COORD: 2,643,616

Y COORD: WG27 -41,089

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.20	0.20	Loose, silty SAND. Slightly moist, brown, topsoil.				
0.5		Loose, silty SAND. Slightly moist, light brown, transported.				
1.0						
1.5						
2.0	2.10	Refusal on strongly cemented FERRICRETE.				
2.5						
3.0						
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0.2 - 2.1m.

3: Sample P2/07/1 at 0 - 0.2m; P2/07/2 at 0.2 - 2.1m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 29 April 2009

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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/08

X COORD: 2,649,370
Y COORD: WG27 -39,845
ELEVATION:
PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
	0.30	Loose, silty SAND. Slightly moist, brown, topsoil.				
0.5		Loose, silty SAND. Moist, orange and red, transported.				
1.0						
1.5						
2.0						
2.5	2.40					
	2.60	Cemented to strongly cemented FERRICRETE. Nodular with slightly moist to moist light brown sand Refusal on FERRICRETE				
3.0						
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0.3 - 2.4m.

3: Sample P2/08/1 at 0 - 0.3m; P2/08/2 at 0.3 - 2.4m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 21 May 2009

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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/09

X COORD: 2,653,977

Y COORD: WG27 -40,517

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.5		Loose, silty SAND. Moist, orange, transported.				
1.0						
1.5						
2.0						
2.5	2.40	Loose, silty SAND. Moist, light brown, transported.				
3.0						
3.5						
4.0	4.00					
4.5		Termination at machine capacity.				

NOTES 1: Nil seepage.

2: Re-usable 0 - 4.0m.

3: Sample P2/09/1 at 0 - 2.4m; P2/09/2 at 2.4 - 4.0m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/10

X COORD: 2,658,895

Y COORD: WG27 -41,364

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.0		Loose, silty SAND. Moist, brown, topsoil.				
0.4	0.40					
0.5		Loose to medium dense, slightly clayey, silty SAND. Slightly moist to moist, orange, transported.				
1.0						
1.5						
2.0						
2.5						
2.9	2.90					
3.0		Cemented to strongly cemented CALCRETE. With some moist, orange sand.				
3.5	3.50					
4.0		Refusal on CALCRETE.				
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0.4 - 2.9m.

3: Sample P2/10/1 at 0 - 0.4m; P2/10/2 at 0.4 - 2.9m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/11

X COORD: 2,663,495

Y COORD: WG27 -42,162

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.0		Medium dense, silty SAND. Moist, red and orange, transported.				
0.5						
1.0						
1.5						
2.0						
2.40						
2.5		Soft to medium hard rock SANDSTONE. Slightly to moderately weathered, red, thinly bedded, highly fractured, fine/medium grained. Waterberg Group.				
2.80						
3.0		Refusal on hard rock SANDSTONE.				
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0 - 2.4m.

3: Sample P2/11/1 at 0 - 2.4m.

4: 1:1 to rock.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 21 May 2009

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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/12

X COORD: 2,666,964
Y COORD: WG27 -42,892
ELEVATION:
PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
	0.20	Loose, silty SAND. Moist, brown, topsoil.				
	0.40	Loose, clayey, silty, gravelly SAND. Moist, red and brown, transported..				
0.5	0.50	Medium hard rock SANDSTONE. Unweathered to slightly weathered, light blue and grey, thinly to medium bedded, moderately fractured, fine/medium grained. Waterberg Group?				
		Refusal on hard rock SANDSTONE.				
1.0						
1.5						
2.0						
2.5						
3.0						
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.
2: Nil re-usable.
3: No samples.
4: 1:1 to rock.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 21 May 2009

PROFILED BY: rr



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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/13

X COORD: 2,672,782

Y COORD: WG27 -44,389

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.4	0.40	Loose, silty SAND. Moist, brown, topsoil.				
0.5		Soft to medium hard rock SANDSTONE. Unweathered to slightly weathered, light blue and grey, thinly bedded, highly fractured, fine grained. Some ferruginisation. Waterberg Group?				
1.0						
1.5						
1.7	1.70	Refusal on hard rock SANDSTONE.				
2.0						
2.5						
3.0						
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.
2: Nil re-usable.
3: No samples.
4: 1:1 to rock.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 21 May 2009

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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/14

X COORD: 2,676,897

Y COORD: WG27 -45,454

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
		Loose, silty SAND. Moist, brown, topsoil.				
	0.30					
		Medium hard rock SANDSTONE. Slightly weathered, light blue and grey, thinly bedded, highly fractured, fine/medium grained. Some ferruginisation. Waterberg Group?				
	0.70					
		Refusal on hard rock SANDSTONE.				
1.0						
1.5						
2.0						
2.5						
3.0						
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.
2: Nil re-usable.
3: No samples.
4: 1:1 to rock.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 21 May 2009

PROFILED BY: rr



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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/15

X COORD: 2,681,487
Y COORD: WG27 -45,686
ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.30	0.30	Loose, silty SAND. Moist, brown, topsoil.				
0.5	1.10	Loose, very clayey, silty SAND. Moist, red and brown, transported.				
1.0	2.80	Weakly cemented to cemented CALCRETE. With some slightly moist, light brown sand.				
1.5						
2.0						
2.5						
3.0		Refusal on CALCRETE.				
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.

2: Nil re-usable.

3: Sample P2/15/01 at 0 - 0.3m; P2/15/02 at 0.3 - 1.1m; P2/15/03 at 1.1 - 2.8m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 20 May 2009

PROFILED BY: rr



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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/16

X COORD: 2,686,375

Y COORD: WG27 -45,642

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
	0.00	Ground Surface				
0.0		Loose, silty SAND. Slightly moist, brown, topsoil.				
	0.30					
0.5		Loose to medium dense, silty SAND. Slightly moist, brown, transported.				
	0.70					
1.0		Medium dense, clayey, silty SAND. Slightly moist to moist, red and grey, transported.				
	1.30					
1.5		Medium dense, clayey, silty SAND. Slightly moist to moist, orange and brown, transported.				
	2.10					
2.0		Dense, clayey, silty, sandy GRAVEL. Moist, grey clay matrix, sub rounded, fine/medium/coarse, transported.				
	3.80					
3.5						
4.0		Termination at machine capacity.				
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0.3 - 0.7m.

3: Sample P2/16/01 at 0 - 0.3m; P2/16/02 at 0.3 - 0.7m; P2/16/03 at 0.7 - 1.3m; P2/16/4 at 1.3 - 2.1m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 20 May 2009

PROFILED BY: rr



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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/17

X COORD: 2,690,603

Y COORD: WG27 -45,598

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
	0.30	Loose, silty SAND. Moist, brown, topsoil.				
0.5		Loose to medium dense, silty SAND. Slightly moist to moist, orange, transported.				
1.0						
1.5	1.50	Weakly cemented to cemented FERRICRETE. Nodular with slightly moist, orange sand.				
2.0	1.90	Cemented to strongly cemented CALCRETE.				
2.5						
3.0	2.80	Refusal on CALCRETE.				
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0.3 - 1.5m.

3: Sample P2/17/01 at 0 - 0.3m; P2/17/02 at 0.3 - 1.5m; P2/17/03 at 1.5 - 1.9m; P2/16/4 at 1.9 - 2.8m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 20 May 2009

PROFILED BY: rr



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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/18

X COORD: 2,693,663

Y COORD: WG27 -45,582

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.5		Loose to medium dense, silty SAND. Moist, light brown, transported.				
1.0						
1.5						
1.60	1.60	Medium dense to dense, silty, sandy GRAVEL. Slightly moist, light brown, sub-rounded, fine/medium, transported, pebble marker. Ferruginised at the surface.				
2.0						
2.40	2.40					
2.5		Very soft to soft rock SANDSTONE. Highly to moderately weathered, purple, thinly bedded, highly fractured, fine/medium grained. Waterberg Group.				
2.80	2.80					
3.0		Terminated - very slow progress.				
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0 - 1.6m.

3: Sample P2/18/01 at 0 - 1.6m; P2/18/02 at 1.6 - 2.4m; P2/18/03 at 2.4 - 2.8m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 20 May 2009

PROFILED BY: rr



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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/18A

X COORD: 2,698,197
Y COORD: WG27 -45,529
ELEVATION:
PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.4	0.40	Loose, silty SAND. Moist, brown, topsoil.				
0.5		Medium dense, clayey, silty SAND. Moist, brown, transported.				
1.5	1.50	Very weakly cemented CALCRETE With some slightly moist, light brown sand.				
2.0						
2.5						
3.0						
3.5						
4.0	4.00	Termination at machine capacity				
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0.4 - 1.5m?

3: Sample P2/18A/01 at 0 - 0.4m; P2/18A/02 at 0.4 - 1.5m; P2/18A/03 at 1.5 - 4.0m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 20 May 2009

PROFILED BY: rr



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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/19

X COORD: 2,700,403

Y COORD: WG27 -40,643

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.30	0.30	Loose, silty SAND. Slightly moist, brown, topsoil.				
0.5		Loose to medium dense, silty, sandy GRAVEL. Moist, red and brown, sub-rounded, fine/medium, transported, pebble marker. Occasional ferricrete.				
1.0						
1.5						
1.70	1.70					
2.0		Medium hard rock SANDSTONE. Slightly weathered, yellow, thinly to medium bedded, highly to moderately fractured, fine/medium grained, ferruginised. Waterberg Group?				
2.30	2.30					
2.5		Refusal on ferruginised SANDSTONE.				
3.0						
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0.3 - 1.7m?

3: Sample P2/19/01 at 0 - 0.3m; P2/19/02 at 0.3 - 1.7m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 19 May 2009

PROFILED BY: rr



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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/20

X COORD: 2,702,414

Y COORD: WG27 -41,236

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.20	0.20	Loose, silty SAND. Slightly moist, brown, topsoil.				
0.5	0.70	Loose to medium dense, silty, sandy GRAVEL. Moist, brown, sub-angular, fine/medium, transported, pebble marker.				
1.0		Very soft to soft rock SANDSTONE. Moderately to highly weathered, red, thinly to medium bedded, highly to moderately fractured, fine/medium grained, some ferruginisation at the surface. Waterberg Group.				
1.5						
2.0	2.10	Terminated - very slow progress.				
2.5						
3.0						
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.

2: Nil re-usable.

3: Sample P2/20/01 at 0 - 0.2m; P2/20/02 at 0.2 - 0.7m; P2/20/3 at 0.7 - 2.1m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 19 May 2009

PROFILED BY: rr



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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/21

X COORD: 2,713,729

Y COORD: WG27 -27,843

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.3	0.30	Loose, silty SAND. Slightly moist, brown, topsoil.				
0.5		Loose, slightly clayey, silty SAND. Moist, red and orange, transported.				
1.0						
1.5						
2.0						
2.2	2.20	Weakly cemented to cemented FERRICRETE. Nodular with some slightly moist, orange sand.				
2.5	2.50	Strongly cemented CALCRETE. Some ferricrete nodules in the matrix. Recovered as boulders.				
3.0	3.10	Refusal on CALCRETE.				
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0.3 - 2.2m.

3: Sample P2/21/01 at 0 - 0.3m; P2/21/02 at 0.3 - 2.2m; P2/21/3 at 2.2 - 2.5m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 19 May 2009

PROFILED BY: rr



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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/22

X COORD: 2,717,828

Y COORD: WG27 -30,818

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.20	0.20	Loose, silty SAND. Slightly moist, brown, topsoil.				
0.5		Medium dense, slightly clayey, silty SAND. Slightly moist, red and orange, transported.				
1.0						
1.5						
1.80	1.80	Medium dense, silty, sandy GRAVEL Slightly moist, red and orange, sub-angular, fine, transported, pebble marker. Occasional ferricrete nodules.				
2.0						
2.50	2.50	Cemented to strongly cemented CALCRETE. With slightly moist, orange sand.				
3.0	3.00	Refusal on CALCRETE.				
3.5						
4.0						
4.5						

NOTES 1: Nil seepage.

2: Re-usable 0.2 - 1.8m and 1.8 - 2.5m?

3: Sample P2/22/01 at 0 - 0.2m; P2/22/02 at 0.2 - 1.8m; P2/22/3 at 1.8 - 2.5m; P2/22/4 at 2.5 - 3.0m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 19 May 2009

PROFILED BY: rr



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TRIAL PIT LOG

CLIENT: WATER AFFAIRS & FORESTRY
PROJECT: MCWAP: Phase 2 - Crocodile Transfer Line
PROJECT NO: J4210/KAP

HOLE NO: P2/23

X COORD: 2,721,541

Y COORD: WG27 -33,303

ELEVATION:

PAGE 1 of 1

Depth		Description	Dynamic Probe Light Equivalent SPT-N			
			10	20	30	40
0.0	0.00	Ground Surface				
0.4	0.40	Loose, silty SAND. Moist, dark brown, topsoil.				
0.5		Hard rock IRONSTONE. Unweathered to slightly weathered, dark blue and grey, very thinly to thinly bedded, highly fractured. Pretoria Group?				
1.0						
1.5						
2.0						
2.5	2.60					
3.0		Very soft rock SANDSTONE. Highly to completely weathered, brown, thinly bedded, very highly fractured, fine/medium grained, recovered as sandy gravel, occasional weakly cemented calcrete. Pretoria Group?				
3.5						
4.0	3.80					
4.5		Termination at machine capacity.				

NOTES 1: Nil seepage.

2: Nil re-usable.

3: Sample P2/23/01 at 0 - 0.4m; P2/23/02 at 0.4 - 2.6m; P2/23/3 at 2.6 - 3.8m.

4: 1:1.

MACHINE: Hydromek 102B.

DIAM: Test pit.

FILE REF: J4210/working/Phase 2/Test pit profiles

DATE PROFILED: 19 May 2009

PROFILED BY: rr



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