

**EXCAVATION - GEOLOGICAL LOG**

PIT NO : GTP01

PROJECT : Grafton Correctional Facility  
LOCATION : Grafton

FILE / JOB NO : IA101200  
SHEET : 1 OF 1

POSITION : E: 505538.600, N: 6710626.000 ( MGA94 Zone 56)	SURFACE ELEVATION : 21 (Approximate) (AHD)
EQUIPMENT TYPE : 8t Excavator	METHOD : Excavator
DATE EXCAVATED : 2/10/16	LOGGED BY : JP
EXCAVATION DIMENSIONS : 0.60 m WIDE	
CHECKED BY : SGR	

DRILLING				MATERIAL							
VE PENETRATION	SUPPORT	GROUNDWATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY RELATIVE DENSITY	HAND PENETROMETER (METER)	STRUCTURE & Other Observations
				0.0		CL	SILTY CLAY Pale grey, low plasticity, with some gravel, sand and rootlets (Topsoil)				
				0.15m							
				0.40m		CH	SILTY CLAY Pale grey, predominantly mottled orange and red, high plasticity clay, traces of gravel (Colluvium)	M	St		
				0.50m							
				0.80m			SILTSTONE Light grey and light brown, fine grained, extremely weathered, very low strength, occasional boulder size fragments being recovered by bucket (Recovered as gravel)				
				1.0							
				1.30m							
				1.50m							
				2.0							
				2.10m							
							GPTP01 terminated due to excavator refusal at 2.1m Note: Sample between 1.3 - 1.5m produced coarse to fine gravel with some sand and silt/clay. Fines from excavator bucket				
				2.5							

PHOTOGRAPHS NOTES  YES  NO

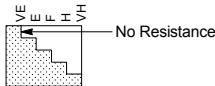
**METHOD**

- N Natural Exposure
- X Existing Excavation
- BH Backhoe Bucket
- B Bulldozer Blade
- R Ripper

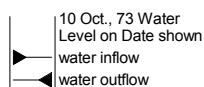
**SUPPORT**

- T Timbering

**PENETRATION**



**WATER**



**SAMPLES & FIELD TESTS**

- U - Undisturbed Sample
- D - Disturbed Sample
- B - Bulk Disturbed Sample
- MC - Moisture Content
- HP - Hand Penetrometer (UCS kPa)
- VS - Vane Shear; P-Peak, R-Remoulded (uncorrected kPa)
- PBT - Plate Bearing Test

**CLASSIFICATION SYMBOLS & SOIL DESCRIPTION**  
Based on Unified Classification System

**MOISTURE**



- D - Dry
- M - Moist
- W - Wet

**CONSISTENCY/ RELATIVE DENSITY**

- VS - Very Soft
- S - Soft
- F - Firm
- St - Stiff
- VSt - Very Stiff
- H - Hard
- VL - Very Loose
- L - Loose
- MD - Medium Dense
- D - Dense
- VD - Very Dense

See Explanatory Notes for details of abbreviations & basis of descriptions.



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Ø] ]: [ ç^áK	G; F		Ú:[ b' & ð) á Š [ & æ] } K	; fUzcb'7 cffYW]cbU: UW]mz; fUzcb		
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**EXCAVATION - GEOLOGICAL LOG**

PIT NO : GTP02

PROJECT : Grafton Correctional Facility  
LOCATION : Grafton

FILE / JOB NO : IA101200  
SHEET : 1 OF 1

POSITION : E: 506176.000, N: 6710545.000 ( MGA94 Zone 56)	SURFACE ELEVATION : 23 (Approximate) (AHD)
EQUIPMENT TYPE : 8t Excavator	METHOD : Excavator
DATE EXCAVATED : 2/10/16	LOGGED BY : JP
EXCAVATION DIMENSIONS : 0.60 m WIDE	
CHECKED BY : SGR	

DRILLING				MATERIAL						
VE PENETRATION F H	SUPPORT	GROUNDWATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION CONSISTENCY RELATIVE DENSITY	HAND PENETRO- METER 100 200 300 400	STRUCTURE & Other Observations
				0.0		CL	SILT CLAY Pale grey, low plasticity, with some gravel, sand and rootlets (Topsoil)	M		
				0.25m						0.20: HP In-situ >600 kPa
				0.50m		CH	SILT CLAY Grey, mottled light brown, high plasticity (Mainly colluvium)			
				0.60m						0.60: HP In-situ >600 kPa
				1.0			Becoming grey, mottled red and light brown with occasional fine gravel	VSt - H		1.00: HP In-situ =270 kPa
				1.40m						
				1.50m				D		1.40: HP In-situ =510 kPa
				2.0		CH	GRAVELLY CLAY Pale grey, high plasticity, fine and medium, sub angular and angular gravel fragments			
				2.50m			Increasing in reddish colour, trace organics (Mainly colluvium possibly grading to residual soils with depth)			
				2.5			GTP02 terminated at Target Depth, difficult digging condition			

PHOTOGRAPHS  
NOTES  YES  NO

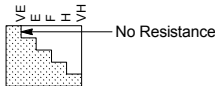
**METHOD**

- N Natural Exposure
- X Existing Excavation
- BH Backhoe Bucket
- B Bulldozer Blade
- R Ripper

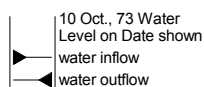
**SUPPORT**

- T Timbering

**PENETRATION**



**WATER**



**SAMPLES & FIELD TESTS**

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- D - Disturbed Sample
- B - Bulk Disturbed Sample
- MC - Moisture Content
- HP - Hand Penetrometer (UCS kPa)
- VS - Vane Shear; P-Peak, R-Remoulded (uncorrected kPa)
- PBT - Plate Bearing Test

**CLASSIFICATION SYMBOLS & SOIL DESCRIPTION**  
Based on Unified Classification System

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**CONSISTENCY/ RELATIVE DENSITY**

- VS - Very Soft
- S - Soft
- F - Firm
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- H - Hard
- VL - Very Loose
- L - Loose
- MD - Medium Dense
- D - Dense
- VD - Very Dense

See Explanatory Notes for details of abbreviations & basis of descriptions.

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EXCAVATION - GEOLOGICAL LOG

PIT NO : GPTP03

PROJECT : Grafton Correctional Facility  
 LOCATION : Grafton

FILE / JOB NO : IA101200  
 SHEET : 1 OF 1

POSITION :	SURFACE ELEVATION : 26 (Approximate) (AHD)
EQUIPMENT TYPE : 8t Excavator	METHOD : Excavator
DATE EXCAVATED : 2/10/16	LOGGED BY : JP
EXCAVATION DIMENSIONS : 0.60 m WIDE	
CHECKED BY : SGR	

DRILLING				MATERIAL						
VE F H	SUPPORT	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION CONSISTENCY RELATIVE DENSITY	HAND PENETROMETER 100 200 300 400	STRUCTURE & Other Observations
				0.0		CL	SILTY CLAY Grey, low plasticity, traces of sand and gravel, with rootlets (Topsoil)	M		
				0.30m			SILTY CLAY Light brown and reddish, high plasticity (Residual soil? or colluvium)			>>X 0.25: HP In-situ >600 kPa
				0.50m						
				0.80m		CH				X 0.60: HP In-situ =420 kPa
				1.00m						X 1.00: HP In-situ =420 kPa
				1.20m			WEATHERED AND FRACTURED BASALT BEDROCK? Grey, fine to coarse grained, moderately weathered, medium to high strength, intermixed with yellow clay, recovered as gravel.			
				1.90m						
				2.0			GPTP03 terminated due to bucket refusal			
				2.5						

PHOTOGRAPHS NOTES  YES  NO

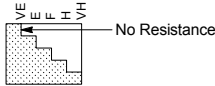
METHOD

- N Natural Exposure
- X Existing Excavation
- BH Backhoe Bucket
- B Bulldozer Blade
- R Ripper

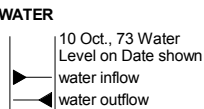
SUPPORT

- T Timbering

PENETRATION



WATER



SAMPLES & FIELD TESTS

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- MC - Moisture Content
- HP - Hand Penetrometer (UCS kPa)
- VS - Vane Shear; P-Peak, R-Remoulded (uncorrected kPa)
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CLASSIFICATION SYMBOLS & SOIL DESCRIPTION  
Based on Unified Classification System



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Ü&ç^K	B5		Ú: [ b & ã) [ Æ	5 % \$ % & \$ \$	ã' : ^Á [ K	

POSITION : E: 505626.100, N: 6710324.000 ( MGA94 Zone 56)	SURFACE ELEVATION : 14 (Approximate) (AHD)
EQUIPMENT TYPE : 8t Excavator	METHOD : Excavator
DATE EXCAVATED : 2/9/16	LOGGED BY : JP
EXCAVATION DIMENSIONS : 0.60 m WIDE	
CHECKED BY : SGR	

DRILLING				MATERIAL							
VE PENETRATION	SUPPORT	GROUNDWATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY RELATIVE DENSITY	HAND PENETRO- METER	STRUCTURE & Other Observations
				0.0	X	SM	SILTY SAND Pale grey, fine and medium sand, with low plasticity fines and rounded gravel (Topsoil)	M			
				0.40m	X						
				0.50m	X		SILTY CLAY Light brown mottled orange-brown, high plasticity (Colluvium)				>>X 0.50: HP In-situ >600 kPa
				1.0	X						1.00: HP In-situ =280 kPa
				1.50m	X						
				1.60m	X						
				2.0	X		Becoming light grey brown mottled orange brown, high plasticity	D			1.40: HP In-situ =220 kPa
				2.40m	X						
				2.5	X		GTP04 terminated at 2.4 m.				

PHOTOGRAPHS  
NOTES  YES  NO

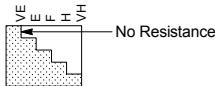
**METHOD**

- N Natural Exposure
- X Existing Excavation
- BH Backhoe Bucket
- B Bulldozer Blade
- R Ripper

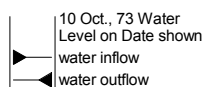
**SUPPORT**

- T Timbering

**PENETRATION**



**WATER**



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Ü&ç^K	B5		Ú: [ b & a [ Bk	5 % \$ % & \$ \$	a^'A[K

POSITION : E: 505965.400, N: 6710279.000 ( MGA94 Zone 56)	SURFACE ELEVATION : 22 (Approximate) (AHD)
EQUIPMENT TYPE : 8t Excavator	METHOD : Excavator
DATE EXCAVATED : 2/10/16	LOGGED BY : JP
EXCAVATION DIMENSIONS : 0.60 m WIDE	
CHECKED BY : SGR	

DRILLING				MATERIAL					
VE PENETRATION	SUPPORT	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION CONSISTENCY RELATIVE DENSITY	HAND PENETROMETER METER	STRUCTURE & Other Observations
			0.0		CL	SILTY CLAY Pale grey, low plasticity fines, with gravel and rootlets. (Topsoil)	M		
		0.30m D-ES	0.30			SILTY CLAY Light brown, medium to high plasticity (Mainly colluvium)			
		0.50m	0.5						
	Not Encountered		1.0		CI-CH		VSt - H		0.60: HP In-situ =480 kPa
			1.5				D		0.80: HP In-situ =330 kPa
		1.80m B	1.80			WEATHERED SILTSTONE BEDROCK Light brown, fine grained, extremely weathered rock, residual soil strength (Recovered as gravel)			1.10: HP In-situ =390 kPa
		2.00m	2.0						1.40: HP In-situ =540 kPa
			2.5			GTP05 terminated at 2.5m			

PHOTOGRAPHS NOTES  YES  NO

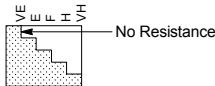
**METHOD**

- N Natural Exposure
- X Existing Excavation
- BH Backhoe Bucket
- B Bulldozer Blade
- R Ripper

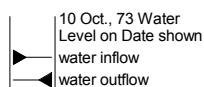
**SUPPORT**

- T Timbering

**PENETRATION**



**WATER**



**SAMPLES & FIELD TESTS**

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**CLASSIFICATION SYMBOLS & SOIL DESCRIPTION**  
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Øj ] :[ ç^ák	G; F		Ú: [ b' & ðæ) á Š[ &ææ ] K	; fUZcb'7 cffYWjcbU: UWj]mž; fUZcb	
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Ü&æ^K	B5		Ú: [ b' & ðæ [ ÆK	-5 % \$ % & \$ \$	-a' ^Á [ K

POSITION : E: 506318.900, N: 6710253.000 (MGA94 Zone 56)	SURFACE ELEVATION : 17 (Approximate) (AHD)
EQUIPMENT TYPE : 8t Excavator	METHOD : Excavator
DATE EXCAVATED : 2/10/16	LOGGED BY : JP
EXCAVATION DIMENSIONS : 0.60 m WIDE	
CHECKED BY : SGR	

DRILLING				MATERIAL							
VE PENETRATION F H	SUPPORT	GROUNDWATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY RELATIVE DENSITY	HAND PENETRO- METER	STRUCTURE & Other Observations
				0.0		SM	SILTY SAND Pale grey, fine and medium sand, with low plasticity fines and rounded gravel (Topsoil)	M			
				0.15m			SILTY CLAY Pale grey brown, mottled orange-brown, low plasticity fines, with some sand (Mainly colluvium)				0.20: HP In-situ >600 kPa
		0.50m D-ES		0.5		CL					
		0.60m		0.60m							0.60: HP In-situ >600 kPa
		1.00m B		1.0			CLAYEY GRAVEL AND GRAVELLY CLAY MIXTURES Pale grey and red-brown, fine to coarse gravel, rounded and sub-rounded, low plasticity fines		VSt - H		
		1.20m		1.20m							
		1.50m D-ES		1.5							
		1.60m		1.60m							
				2.0							
				2.40m							1.40: HP In-situ =360 kPa
				2.5			GTP06 terminated due to refusal on gravel possible weathered bedrock				

PHOTOGRAPHS  
NOTES  YES  NO

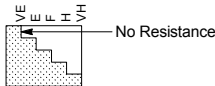
METHOD

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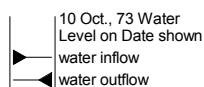
SUPPORT

- T Timbering

PENETRATION



WATER



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Öj } : [ ç^âK	G; F		Ú: [ b & a } á	; fUzcb'7 cffYWjcbU : UW]mz; fUzcb	
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**EXCAVATION - GEOLOGICAL LOG**

PIT NO : GTP08

PROJECT : Grafton Correctional Facility  
LOCATION : Grafton

FILE / JOB NO : IA101200  
SHEET : 1 OF 1

POSITION : E: 505935.600, N: 6709868.000 (MGA94 Zone 56)	SURFACE ELEVATION : 21 (Approximate) (AHD)
EQUIPMENT TYPE : 8t Excavator	METHOD : Excavator
DATE EXCAVATED : 2/9/16	LOGGED BY : JP
EXCAVATION DIMENSIONS : 0.60 m WIDE	
CHECKED BY : SGR	

DRILLING				MATERIAL						
VE E F H	SUPPORT	GROUNDWATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION CONSISTENCY RELATIVE DENSITY	HAND PENETROMETER 100 200 300 400	STRUCTURE & Other Observations
				0.0		CL-CI	SILTY CLAY Pale grey, low to medium plasticity fines, with fine and medium sand and rootlets (Topsoil)	M		0.20: HP In-situ >600 kPa
				0.40m						
				0.50m D-ES		CH	SILTY CLAY Dark brown, lightly mottled orange-brown, high plasticity fines, traces of black gravel fragments (Mainly colluvium soil)			0.60: HP In-situ >600 kPa
				0.60m						
				1.0						1.00: HP In-situ =360 kPa
				1.10m						
				1.20m D-ES		CH	GRAVELLY SILTY CLAY Dark brown, mottled orange brown, high plasticity clay, red, sub angular and angular gravel, traces of charcoal (Residual soil)	D		1.40: HP In-situ =360 kPa
				1.30m B-x2						
				1.50m						
				1.80m D-ES						
				1.90m						
				2.0			WEATHERED SILTSTONE BEDROCK Light brown yellowish, fine grained, highly weathered, low strength			
				2.10m						
							GTP08 terminated at 2.1 m due to refusal.			

PHOTOGRAPHS NOTES  YES  NO

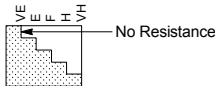
**METHOD**

- N Natural Exposure
- X Existing Excavation
- BH Backhoe Bucket
- B Bulldozer Blade
- R Ripper

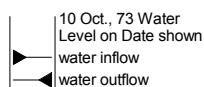
**SUPPORT**

- T Timbering

**PENETRATION**



**WATER**



**SAMPLES & FIELD TESTS**

- U - Undisturbed Sample
- D - Disturbed Sample
- B - Bulk Disturbed Sample
- MC - Moisture Content
- HP - Hand Penetrometer (UCS kPa)
- VS - Vane Shear; P-Peak, R-Remoulded (uncorrected kPa)
- PBT - Plate Bearing Test

**CLASSIFICATION SYMBOLS & SOIL DESCRIPTION**  
Based on Unified Classification System

**MOISTURE**

- D - Dry
- M - Moist
- W - Wet

**CONSISTENCY/RELATIVE DENSITY**

- VS - Very Soft
- S - Soft
- F - Firm
- St - Stiff
- VSt - Very Stiff
- H - Hard
- VL - Very Loose
- L - Loose
- MD - Medium Dense
- D - Dense
- VD - Very Dense

See Explanatory Notes for details of abbreviations & basis of descriptions.



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Ü&ç^K	B5		Ú:[ b' &ôb[ ÆK	-5 %\$%&\$\$	-a'!^A[K

POSITION : E: 506280.100, N: 6709826.000 ( MGA94 Zone 56)	SURFACE ELEVATION : 25 (Approximate) (AHD)
EQUIPMENT TYPE : 8t Excavator	METHOD : Excavator
DATE EXCAVATED : 2/10/16	LOGGED BY : JP
EXCAVATION DIMENSIONS : 0.60 m WIDE	
CHECKED BY : SGR	

DRILLING				MATERIAL							
VE PENETRATION F H	SUPPORT	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY RELATIVE DENSITY	HAND PENETRO- METER METER	STRUCTURE & Other Observations
				0.0		CL	SILTY CLAY Pale grey, low plasticity fines, with fine and medium sand and rootlets (Topsoil)				
				0.20m							
				0.5		CH	SILTY CLAY Light brown, mottled orange-brown, high plasticity fines (Mainly colluvium)	M			>>X 0.40: HP In-situ >600 kPa
				0.60m							
				1.0		VS - H	WEATHERED SANDSTONE BEDROCK Light brown, fine to coarse grained, extremely weathered, extremely low to low strength, with some clay				
				1.10m							>>X 1.10: HP In-situ >600 kPa
				1.30m							
				1.5							
				1.60m							
							GTP09 terminated due to slow excavation				
							Note: Sample recovered between 1.1 - 1.3m produced coarse to fine gravel with some sand and silt and clay fines from excavator bucket				
				2.0							
				2.5							

PHOTOGRAPHS  
NOTES  YES  NO

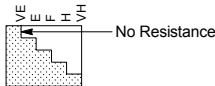
METHOD

- N Natural Exposure
- X Existing Excavation
- BH Backhoe Bucket
- B Bulldozer Blade
- R Ripper

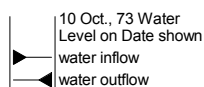
SUPPORT

- T Timbering

PENETRATION



WATER



SAMPLES & FIELD TESTS

- U - Undisturbed Sample
- D - Disturbed Sample
- B - Bulk Disturbed Sample
- MC - Moisture Content
- HP - Hand Penetrometer (UCS kPa)
- VS - Vane Shear; P-Peak, R-Remoulded (uncorrected kPa)
- PBT - Plate Bearing Test

CLASSIFICATION SYMBOLS &  
SOIL DESCRIPTION  
Based on Unified  
Classification System

MOISTURE



- D - Dry
- M - Moist
- W - Wet

CONSISTENCY/  
RELATIVE DENSITY

- VS - Very Soft
- S - Soft
- F - Firm
- St - Stiff
- VSt - Very Stiff
- H - Hard
- VL - Very Loose
- L - Loose
- MD - Medium Dense
- D - Dense
- VD - Very Dense

See Explanatory Notes for  
details of abbreviations  
& basis of descriptions.



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Ú&æ^K	B5		Ú: [ b' & ðæ [ ÆK	5 % \$ % & \$ \$	æ' !^Á [ K

**EXCAVATION - GEOLOGICAL LOG**

PIT NO : GPTP10

PROJECT : Grafton Correctional Facility  
LOCATION : Grafton

FILE / JOB NO : IA101200  
SHEET : 1 OF 1

POSITION : E: 505768.400, N: 6709293.000 ( MGA94 Zone 56)	SURFACE ELEVATION : 16 (Approximate) (AHD)
EQUIPMENT TYPE : 8t Excavator	METHOD : Excavator
DATE EXCAVATED : 2/9/16	LOGGED BY : JP
EXCAVATION DIMENSIONS : 0.60 m WIDE	
CHECKED BY : SGR	

DRILLING				MATERIAL							
VE PENETRATION F H	SUPPORT	GROUNDWATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY RELATIVE DENSITY	HAND PENETRO- METER 100 200 300 400	STRUCTURE & Other Observations
				0.0		CH	SILTY CLAY Pale grey, high plasticity fines, with fine and medium sand and rootlets (Topsoil)	M			
				0.30m							
				0.5		CI-CH	SILTY CLAY Grey and mottled orange-brown, medium to high plasticity, traces of red clay (Mainly colluvium)				0.35: HP In-situ =140 kPa
				0.60m							
				0.70m							0.60: HP In-situ =520 kPa
				1.0							
				1.10m							
				1.30m							
				1.5			Becoming white-greyish				
				1.50m							
				1.60m							
				1.70m							
				2.0		CL	GRAVELLY CLAY Red-brown, low plasticity fines, fine to coarse, sub angular and angular gravel				
				2.10m							
				2.40m			WEATHERED SILTSTONE BEDROCK Pale grey, fine grained, extremely weathered, very low strength (Recovered as a gravel)				
				2.5			GPTP10 terminated at 2.4 m				

PHOTOGRAPHS  
NOTES  YES  NO

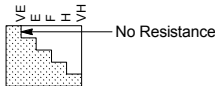
**METHOD**

- N Natural Exposure
- X Existing Excavation
- BH Backhoe Bucket
- B Bulldozer Blade
- R Ripper

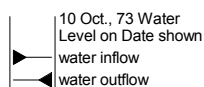
**SUPPORT**

- T Timbering

**PENETRATION**



**WATER**



**SAMPLES & FIELD TESTS**

- U - Undisturbed Sample
- D - Disturbed Sample
- B - Bulk Disturbed Sample
- MC - Moisture Content
- HP - Hand Penetrometer (UCS kPa)
- VS - Vane Shear; P-Peak, R-Remoulded (uncorrected kPa)
- PBT - Plate Bearing Test

**CLASSIFICATION SYMBOLS & SOIL DESCRIPTION**  
Based on Unified Classification System

**MOISTURE**



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- M - Moist
- W - Wet

**CONSISTENCY/ RELATIVE DENSITY**

- VS - Very Soft
- S - Soft
- F - Firm
- St - Stiff
- VSt - Very Stiff
- H - Hard
- VL - Very Loose
- L - Loose
- MD - Medium Dense
- D - Dense
- VD - Very Dense

See Explanatory Notes for details of abbreviations & basis of descriptions.



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Ø] ]: [ ç^âK	G; F		Ú: [ b & ð á Š [ & æ ] K	; fUzcb'7 cffYWjcbU: UW]mž; fUzcb		
Öæ^K	& # \$ % / %					
Ü&æ^K	B5		Väi^K	; DHD%\$ž&{\ a		
			Ú: [ b & ð [ ÆK	5 % \$ % & \$ \$	a' ]^Á [ K	

POSITION : E: 506160.300, N: 6709246.000 ( MGA94 Zone 56)	SURFACE ELEVATION : 16 (Approximate) (AHD)
EQUIPMENT TYPE : 8t Excavator	METHOD : Excavator
DATE EXCAVATED : 2/9/16	LOGGED BY : JP
EXCAVATION DIMENSIONS : 0.60 m WIDE	
CHECKED BY : SGR	

DRILLING				MATERIAL						
VE PENETRATION F H	SUPPORT	GROUNDWATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION CONSISTENCY RELATIVE DENSITY	HAND PENETRO- METER 100 200 300 400	STRUCTURE & Other Observations
				0.0		CL	SILTY CLAY Pale grey, low plasticity fines, with fine and medium sand and rootlets (Topsoil)	M		
				0.30m						
				0.40m			SILTY CLAY Light brown, medium to high plasticity, with pockets of charcoal (Colluvium)			>> 0.40: HP In-situ =550 kPa
				0.50m						
				1.0		CI-CH		VSt - H		0.80: HP In-situ =260 kPa
				1.40m				D		1.20: HP In-situ =360 kPa
				1.40m			WEATHERED SANDSTONE BEDROCK Pale grey, fine and medium grained, with medium plasticity fines (Recovered as fines and gravelly fragments)			
				1.50m						
				1.60m						
				1.80m						
				1.80m			GPTP11 terminated due to refusal			
				2.0						
				2.5						

PHOTOGRAPHS  
NOTES  YES  NO

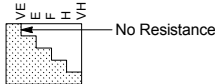
**METHOD**

- N Natural Exposure
- X Existing Excavation
- BH Backhoe Bucket
- B Bulldozer Blade
- R Ripper

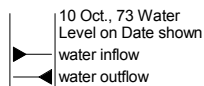
**SUPPORT**

- T Timbering

**PENETRATION**



**WATER**



**SAMPLES & FIELD TESTS**

- U - Undisturbed Sample
- D - Disturbed Sample
- B - Bulk Disturbed Sample
- MC - Moisture Content
- HP - Hand Penetrometer (UCS kPa)
- VS - Vane Shear; P-Peak, R-Remoulded (uncorrected kPa)
- PBT - Plate Bearing Test

**CLASSIFICATION SYMBOLS & SOIL DESCRIPTION**  
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See Explanatory Notes for details of abbreviations & basis of descriptions.



Ö:æ }K	>D		Ójæ) κ	-bZ Ugrfi Wi fY'BYk 'Gci Æ 'K UYg		
Øj ]: [ ç^ák	G; F		Ú: [ b & ð) á Š [ & æ] }K	; fUzcb'7 cffYWjcbU: UW]mž; fUzcb		
Öæ^K	& # \$ & # %		Väi^K	; DHD%#%#%, a		
Ü&æ^K	B5		Ú: [ b & ð [ ÆK	5 % \$ % & \$ \$	æ'!^Á [K	

**EXCAVATION - GEOLOGICAL LOG**

PIT NO : **GTP12**

PROJECT : Grafton Correctional Facility  
 LOCATION : Grafton

FILE / JOB NO : IA101200  
 SHEET : 1 OF 1

POSITION : E: 505895.700, N: 6709032.000 ( MGA94 Zone 56)	SURFACE ELEVATION : 21 (Approximate) (AHD)
EQUIPMENT TYPE : 8t Excavator	METHOD : Excavator
DATE EXCAVATED : 2/9/16	LOGGED BY : JP
EXCAVATION DIMENSIONS : 0.60 m WIDE	
CHECKED BY : SGR	

DRILLING				MATERIAL							
VE PENETRATION	SUPPORT	GROUNDWATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY RELATIVE DENSITY	HAND PENETRO- METER	STRUCTURE & Other Observations
				0.0		CH	SILTY CLAY Dark brown, high plasticity fines, with fine and medium sand and rootlets (Topsoil)				
				0.30m		CH	SILTY CLAY Dark brown, high plasticity fines, traces of fine and medium sand (Mainly colluvium)				
			0.40m D-ES	0.5		CH	Becoming dark brown and mottled orange-brown				0.40: HP In-situ =220 kPa
			0.50m	1.0		CH					0.60: HP In-situ =120 kPa
		Not Encountered		1.00m B		CH					1.00: HP In-situ =140 kPa
				1.20m		CH					
				1.40m D-ES		CH					
				1.60m		CH					
				1.80m D-ES		CH	GRAVELLY CLAY Becoming off white and mottled orange-brown, high plasticity, with red angular and sub-angular gravel				
				1.90m B		CH					
				2.0			WEATHERED SILTSTONE BEDROCK Red, fine grained, extremely low to low strength, with clay (Residual soil and recovered as a clayey gravel)				
				2.10m							
				2.5							
				2.50m			GTP12 terminated at target depth				

PHOTOGRAPHS NOTES  YES  NO

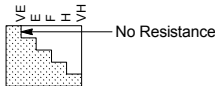
**METHOD**

- N Natural Exposure
- X Existing Excavation
- BH Backhoe Bucket
- B Bulldozer Blade
- R Ripper

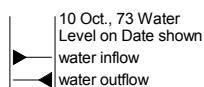
**SUPPORT**

- T Timbering

**PENETRATION**



**WATER**



**SAMPLES & FIELD TESTS**

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- D - Disturbed Sample
- B - Bulk Disturbed Sample
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See Explanatory Notes for details of abbreviations & basis of descriptions.

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