coffey environments

Engineering Log - Borehole

Borehole No.	***BH48***
Sheet	1 of 1
Office Job No.:	***ENVILCOV00315AH***
Client:	***Valad Property Group***
Date started:	***31.5.2008***
Principal:	
Date completed:	***31.5.2008***
Project:	***ESA 630-726 Princess Highway Tempe***
Logged by:	***NC***
Borehole Location:	***KAS Autopower***
Checked by:	***BS***

drill model and mounting:	Hand Auger	Easting:	slope:	-90°	R.L. Surface:
hole diameter:	75 mm	Northing	bearing:		datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
Crowbar						0			ASPHALT	D	L		FILL
									FILL: GRAVELLY SAND: fine to medium grained, brown to dark brown. Gravel is fine to medium grained, dark brown. Some blue metal gravels and roadbase mix.				Refusal onto unknown metal object, what appeared to be underground storage tank.
						1			Refusal onto unknown metal object, what appeared to be underground storage tank. Borehole BH48 terminated at 0.1m				
						2							
						3							
						4							
						5							
						6							
						7							
						8							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit
*bit shown by suffix e.g.	ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey environments

Engineering Log - Borehole

Borehole No.	**BH5**
Sheet	1 of 1
Office Job No.:	**ENVILCOV00315AH**
Client:	**Valad Property Group**
Date started:	**23.5.2008**
Principal:	
Date completed:	**23.5.2008**
Project:	**ESA 630-726 Princess Highway Tempe**
Logged by:	**NC**
Borehole Location:	**Kennards Self Storage**
Checked by:	**BS**

drill model and mounting: Truck mounted drill rig | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
ADSV									**ASPHALT**	D	L		FILL
				E					**FILL: GRAVELLY SAND:** fine to medium grained, brown to dark brown. Gravel is fine to medium grained, red to brown with some dark brown. Some brick fragments.				PID: 1.2
						1							
				E + DUP 10					**FILL: GRAVELLY SAND:** fine to medium grained, red to brown. Gravel is medium grained, red to pale brown. (crushed brick)	D	L		PID: 6.5
				E + DUP 11, 11a					**FILL: GRAVELLY SAND:** fine to medium grained, brown to red brown. Gravel is medium grained, brown. Low hydrocarbon odour.	D	L		PID: 27
						2			**FILL: GRAVELLY SAND:** fine to medium grained, red to grey brown. Gravel is fine grained, red to brown. (crushed brick) Low hydrocarbon odour.	M	L		
									GRAVELLY SAND: fine to medium grained, pale brown to brown. Gravel is medium grained, brown. Some grey shale and ironstone fragments. Some brick fragments.	D	L		RESIDUAL
				E						D	L		PID: 1.0
						3			**GRAVELLY SAND:** fine to medium grained, pale brown to brown. Gravel is medium grained, pale brown to brown.				
									Borehole BH5 terminated at 2.7m				
						4							
						5							
						6							
						7							
						8							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit
*bit shown by suffix e.g.	ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey environments

Engineering Log - Borehole

Borehole No.	***BH50***
Sheet	1 of 1
Office Job No.:	***ENVILCOV00315AH***
Client:	***Valad Property Group***
Date started:	***31.5.2008***
Principal:	
Date completed:	***31.5.2008***
Project:	***ESA 630-726 Princess Highway Tempe***
Logged by:	***NC***
Borehole Location:	***KAS Autopower***
Checked by:	***BS***

drill model and mounting: Hand Auger | Easting: | slope: -90° | R.L. Surface:

hole diameter: 75 mm | Northing | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
HADT						0			CONCRETE				FILL
									FILL: GRAVELLY SAND: fine to medium grain, brown. Gravels are fine grained, brown to dark brown.	D	L		Refusal onto unknown FILL material.
									Borehole BH50 terminated at 0.25m				
						1							
						2							
						3							
						4							
						5							
						6							
						7							
						8							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey environments

Engineering Log - Borehole

Borehole No.	***BH51***
Sheet	1 of 1
Office Job No.:	***ENVILCOV00315AH***
Client:	***Valad Property Group***
Date started:	***31.5.2008***
Principal:	
Date completed:	***31.5.2008***
Project:	***ESA 630-726 Princess Highway Tempe***
Logged by:	***NC***
Borehole Location:	***KAS Autopower***
Checked by:	***BS***

drill model and mounting: Hand Auger | Easting: | slope: -90° | R.L. Surface:

hole diameter: 75 mm | Northing | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
HADT									**CONCRETE**				FILL
									FILL: GRAVELLY SAND: fine to medium grained, brown. Some fine gravels, brown to dark brown.	D M	L S		
				E + DUPZ 14					FILL: GRAVELLY SILTY CLAY: low plasticity, brown to dark brown. Gravel is fine to medium grained, red to dark brown. Some brick fragments, some dark staining (black). Low hydrocarbon odour.	D	L		PID: 1.7
						1			FILL: GRAVELLY SAND: fine to medium grained, dark brown. Gravel is medium grained, grey to dark brown. Some white porcellain material. Some dark staining (black). Low hydrocarbon odour.				
									Borehole BH51 terminated at 0.7m				
						2							
						3							
						4							
						5							
						6							
						7							
						8							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey environments

Engineering Log - Borehole

Borehole No.	***BH52***
Sheet	1 of 1
Office Job No.:	***ENVILCOV00315AH***
Client:	***Valad Property Group***
Date started:	***31.5.2008***
Principal:	
Date completed:	***31.5.2008***
Project:	***ESA 630-726 Princess Highway Tempe***
Logged by:	***NC***
Borehole Location:	***KAS Autopower***
Checked by:	***BS***

drill model and mounting: Hand Auger | Easting: | slope: -90° | R.L. Surface:

hole diameter: 75 mm | Northing | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
HADT									**CONCRETE**				FILL
				E					**FILL: SAND:** fine to medium grained, brown. Some fine gravels.	D	L		PID: 0.6
				E					**SILTY CLAY:** low to medium plasticity, pale brown to grey mottled brown.	M	F		RESIDUAL PID: 0.6
						1			**SILTY CLAY:** low plasticity, grey mottled pale brown.	M	F		
				E					**GRAVELLY SAND:** fine to medium grained, pale brown to grey with some brown. Gravel is fine grained, pale brown to grey. Some grey shale fragments.	D	L		PID: 0.6
									Borehole BH52 terminated at 1.2m				
						2							
						3							
						4							
						5							
						6							
						7							
						8							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey environments

Engineering Log - Borehole

Borehole No. **BH7**

Sheet 1 of 2

Office Job No.: **ENVILCOV00315AH**

Client: ***Valad Property Group***

Date started: ***20.5.2008***

Principal:

Date completed: ***20.5.2008***

Project: ***ESA 630-726 Princess Highway Tempe***

Logged by: ***NC***

Borehole Location: ***Kennards Self Storage***

Checked by: ***BS***

drill model and mounting: Truck mounted drill rig | Easting: 204.043 | slope: -90° | R.L. Surface: 10.41

hole diameter: 100 mm | Northing 140.9171 | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
ADV									**ASPHALT**	D	L		FILL
					10				**Gravelly SAND:** Fine to medium grained, brown to dark brown. Gravel is medium to coarse, brown to dark brown.				
				E									PID: 0.9
						1			Colour becoming darker and moist.				
				E									PID: 0.7
					9								
				E					**Clayey Gravelly SAND:** Fine to medium grained, brown to dark brown. Gravel is medium to coarse, brown to dark brown.	M	L		PID: 0.5
						2							
					8								
				E						W			PID: 1.7
									Sheen on water on material. Oily odour-SLIGHT.	M	F		
						3			**Silty CLAY:** Medium plasticity, pale brown to brown mottled grey.				
					7								
				E									PID: 0.7
						4			**Silty CLAY:** Medium plasticity, pale brown, orange and red mottled grey. Some fine gravels, shale and ironstone.	M	F		
				E									PID: 0.7
					6								
									Silty CLAY: Medium plasticity, brown to pale brown, mottled grey. Some fine gravels, shale, ironstone. Traces of rootlets.	M	F		
				E		5							PID: 0.6
					5								
									Sandy Gravelly CLAY: Low plasticity, dark brown to black. Sand is fine to medium, gravels are medium grained. Some rootlets, some 'coke'/ burnt waste material, some glass.				
						6							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit
*bit shown by suffix e.g.	ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

BOREHOLE ENVILCOV00315AH.GPJ COFFEY.GDT 25.6.08

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coffey environments

Engineering Log - Borehole

Borehole No. **BH7**

Sheet 2 of 2

Office Job No.: **ENVILCOV00315AH**

Client: ***Valad Property Group***

Date started: ***20.5.2008***

Principal:

Date completed: ***20.5.2008***

Project: ***ESA 630-726 Princess Highway Tempe***

Logged by: ***NC***

Borehole Location: ***Kennards Self Storage***

Checked by: ***BS***

drill model and mounting: Truck mounted drill rig | Easting: 204.043 | slope: -90° | R.L. Surface: 10.41

hole diameter: 100 mm | Northing 140.9171 | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
ADV					4				**Sandy Gravelly CLAY:**Low plasticity, dark brown to black. Sand is fine to medium, gravels are medium grained. Some rootlets, some 'coke'/ burnt waste material, some glass. *(continued)*	M	S		
				E		7							PID: 0.9
					3								
						8			Becoming saturated.	S	S-L		
					2								
				E		9							PID: 0.8
					1				Borehole BH7 terminated at 9m				
						10							
					0								
						11							
					-1								
						12							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit
*bit shown by suffix e.g.	ADT

support

M mud N nil

C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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coffey environments

Engineering Log - Borehole

Borehole No.	**BH8**
Sheet	1 of 1
Office Job No.:	**ENVILCOV00315AH**
Client:	***Valad Property Group***
Date started:	***23.5.2008***
Principal:	
Date completed:	***23.5.2008***
Project:	***ESA 630-726 Princess Highway Tempe***
Logged by:	***NC***
Borehole Location:	***Kennards Self Storage***
Checked by:	***BS***

drill model and mounting: Truck mounted drill rig | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
ADTV									**ASPHALT**	D	L		FILL
				E					**FILL: GRAVELLY SAND:** fine to medium grained, brown to dark brown. Gravels are medium grained. Some brick fragments.				PID: 0.2
						1							
				E									PID: 0.4
				E									PID: 0.5
						2							
				E					**FILL: SANDY GRAVELLY CLAY:** low plasticity, brown. Gravel is medium grained, pale brown to brown. Some brick fragments.	D	F		PID: 0.3
									Refusal onto FILL material.				
						3			Borehole BH8 terminated at 2.7m				
						4							
						5							
						6							
						7							
						8							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit
*bit shown by suffix e.g.	ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey environments

Engineering Log - Borehole

Borehole No.	**BH9**
Sheet	1 of 1
Office Job No.:	**ENVILCOV00315AH**
Client:	**Valad Property Group**
Date started:	**19.5.2008**
Principal:	
Date completed:	**19.5.2008**
Project:	**ESA 630-726 Princess Highway Tempe**
Logged by:	**NC**
Borehole Location:	**Kennards Self Storage**
Checked by:	**BS**

drill model and mounting: Truck mounted drill rig | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
ADT									**ASPHALT**	D	L		FILL
									FILL: SANDY GRAVEL:gravel is coarse grained, dark brown to brown. Sand is fine to medium grained, dark brown. (roadbase mix)	M	L		
									FILL: GRAVELLY SAND:fine to medium grained, brown to dark brown. Gravels are medium to coarse grained, pale brown to dark brown.				
				E		1							PID: 400
				E									PID: 465
						2			**FILL: GRAVELLY SAND:**fine to medium grained, brown. Gravels are medium to coarse grained, dark brown. Some brick fragments.	M	L		
				E + DUP 1									PID: 45.5
						3							
				E									PID: 242
						4							
				E					Refusal at 4.4m onto FILL material.				PID: 328
									Borehole BH9 terminated at 4.4m				
						5							
						6							
						7							
						8							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

BOREHOLE ENVILCOV00315AH.GPJ COFFEY.GDT 25.6.08

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coffey environments

Engineering Log - Borehole

Borehole No.	***MW17***
Sheet	1 of 1
Office Job No.:	***ENVILCOV00315AH***
Client:	***Valad Property Group***
Date started:	***31.5.2008***
Principal:	
Date completed:	***31.5.2008***
Project:	***ESA 630-726 Princess Highway Tempe***
Logged by:	***NC***
Borehole Location:	***KAS Autopower***
Checked by:	***BS***

drill model and mounting: Truck mounted drill rig | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
ADT/DT						0			**CONCRETE**				FILL
				E					**FILL: GRAVELLY SAND:** fine to medium grained, brown. Gravel is fine to medium grained, pale brown to grey.	D	L		PID: 0.8
				E		1							PID: 0.8
									CONCRETE				
									FILL: SAND: fine to medium grained, pale yellow to grey. (fill sand)	W	L		
				E		2							PID: 1.1
				E									PID: 1.3
						3			**FILL: SANDY GRAVEL:** coarse grained, dark brown to dark grey. Sand is fine to medium grained, dark brown.	W	L		
									Borehole MW17 terminated at 2.8m				
						4							
						5							
						6							
						7							
						8							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit
*bit shown by suffix e.g.	ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey environments

Engineering Log - Borehole

Borehole No. ***MW18***

Sheet 1 of 2

Office Job No.: ***ENVILCOV00315AH***

Client: ***Valad Property Group***

Date started: ***31.5.2008***

Principal:

Date completed: ***31.5.2008***

Project: ***ESA 630-726 Princess Highway Tempe***

Logged by: ***NC***

Borehole Location: ***KAS Autopower***

Checked by: ***BS***

drill model and mounting: Truck mounted drill rig | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
ADT/DT									**CONCRETE**				FILL
									FILL: GRAVELLY SAND: fine to medium grained, brown to dark brown. Gravel is medium grained, pale brown to brown. Some brick fragments, some grey shale fragments.	D	L		
				E									PID: 0.7
									CONCRETE	D	L		
						1			**FILL: GRAVELLY SAND** fine to medium grained, brown to dark brown. Gravel is medium to coarse grained, brown to dark brown.	D	L		
				E									PID: 0.7
									FILL: GRAVELLY SAND: fine to medium grained, pale brown to brown. Gravel is medium grained, red to brown. Some fragments of brick, some glass, some concrete, some metal pieces.				
				E									PID: 0.7
						2							
				E									PID: 0.6
						3							
				E									PID: 0.6
						4							
Air Blade				E									PID:0.6
						5							
						6							
						7							
						8							

BOREHOLE ENVILCOV00315AH.GPJ COFFEY.GDT 25.6.08

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method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support

M mud N nil

C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey environments

Engineering Log - Borehole

Borehole No. ***MW18***

Sheet 2 of 2

Office Job No.: ***ENVILCOV00315AH***

Client: ***Valad Property Group***

Date started: ***31.5.2008***

Principal:

Date completed: ***31.5.2008***

Project: ***ESA 630-726 Princess Highway Tempe***

Logged by: ***NC***

Borehole Location: ***KAS Autopower***

Checked by: ***BS***

drill model and mounting: Truck mounted drill rig | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum:

drilling information							material substance						
method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
Air Blade						9			**FILL: GRAVELLY SAND:** fine to medium grained, pale brown to brown. Gravel is medium grained, red to brown. Some fragments of brick, some glass, some concrete, some metal pieces. *(continued)*	D	L		
									Borehole MW18 terminated at 9m				
						10							
						11							
						12							
						13							
						14							
						15							
						16							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support

M mud N nil

C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey environments

Borehole No. **BH10/ MW8**

Engineering Log - Piezometer

Sheet 1 of 2

Office Job No.: **ENVILCOV00315AH**

Client: ***Valad Property Group***

Date started: ***20.5.2008***

Principal:

Date completed: ***20.5.2008***

Project: ***ESA 630-726 Princess Highway Tempe***

Logged by: ***NC***

Borehole Location: ***Kennards Self Storage***

Checked by: ***BS***

drill model & mounting:Truck mounted drill rig | Easting: 230.7552 | slope: -90° | R.L. Surface: 10.35

hole diameter: | Northing: 98.8424 | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	structure and additional observations
ADSV						10				**ASPHALT**	M	L	FILL
				E						**FILL: GRAVELLY SAND:**fine to medium grained, brown to dark brown. Gravel is medium to coarse grained. Some large grey shale cobbles.			PID: 1.1
				E		9	1						PID: 1.5
				E									PID: 0.9
						8	2						
				E									PID: 1.1
						7	3						
				E									PID: 1
						6	4						
				E									PID: 1.3
						5	5						
				E									PID: 1.5
						4	6						
				E									PID: 1.2
						3	7						
							8						

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
DT	diatube
B	blank bit
V	V bit
T	TC bit
TBX	Tubex

*bit shown by suffix e.g. ADT

support

C casing N nil

penetration

1 2 3 4 no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
P	pressure meter
Bs	bulk sample
R	refusal
E	environmental sample
PID	PID measurement
WS	water sample
PZ	piezometer
ALT	air lift test

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense