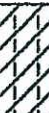


TEST PIT LOG

CLIENT: AECOM Australia Pty Ltd
PROJECT: Oonoonba DPI
LOCATION: Oonoonba

SURFACE LEVEL: 4.5 AHD
EASTING: 486080
NORTHING: 7867077
DIP/AZIMUTH: 90°/-

PIT No: 4
PROJECT No: 50888
DATE: 16 Apr 10
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
	0.3	SILTY CLAY - Soft to firm dark brown silty clay with a trace of fine to medium grained sand; M<Wp										
	0.5	SILTY CLAY - Firm dark brown black silty clay with a trace of fine to medium grained sand; M<Wp										
	0.5	SLIGHTLY SANDY CLAY - Stiff to very stiff grey orange fine to medium grained sandy clay; M<Wp			0.5		pp 110-150 kPa					
	0.85			U50								
	1.3	SAND - Medium dense grey dark brown fine to coarse grained sand;			0.85							
	1.5			D	1.5							
	1.6	Pit discontinued at 1.6m depth due to pit wall collapse										
	2											
	3											

RIG: John Deere 315SJ excavator with 450mm wide toothed bucket

LOGGED: Lynch

WATER OBSERVATIONS: Groundwater seepage at 1.5m depth

☐ Sand Penetrometer AS1289.6.3.3

REMARKS:

☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength $I_c(50)$ MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	Δ	Water seep
		▽	Water level

CHECKED
Initials: <i>ML</i>
Date: 17.5.10



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TEST PIT LOG

CLIENT: AECOM Australia Pty Ltd
PROJECT: Oonoonba DPI
LOCATION: Oonoonba

SURFACE LEVEL: 4.5 AHD
EASTING: 480175
NORTHING: 7866897
DIP/AZIMUTH: 90°/-

PIT No: 8
PROJECT No: 50888
DATE: 16 Apr 10
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
	0.2	FILLING - Dark brown grey slightly clayey silty fine to medium grained sand; humid										
	0.5	SILTY SAND - Medium dense orange brown silty fine to medium grained sand with some clay; humid			0.3		pp 250-380 kPa					
	0.5	SAND AND SILTY CLAY - Medium dense to dense/very stiff orange brown sand and silty clay; fine to medium grained sand fraction; humid/M<Wp			0.6		pp 320-420 kPa					
-1	1.0			D	1.0		pp 210-270 kPa	-1				
	1.2	SLIGHTLY SILTY SAND - Medium dense yellow brown fine to medium grained sand; damp			1.25		No sample retained					
				U50								
					1.7							
-2	2.0	- grading to wet below 1.8m depth		D	2.0			-2				
-3	3.0	Pit discontinued at 3.0m depth - limit of investigation		D	3.0			-3				

RIG: John Deere 315SJ excavator with 450mm wide toothed bucket

LOGGED: Lynch

WATER OBSERVATIONS: Groundwater seepage at 1.8m depth

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	D	Water seep
		W	Water level

CHECKED
Initials: <i>MLD</i>
Date: 17.5.10



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TEST PIT LOG

CLIENT: AECOM Australia Pty Ltd
PROJECT: Oonoonba DPI
LOCATION: Oonoonba

SURFACE LEVEL: 4 AHD
EASTING: 480483
NORTHING: 7866695
DIP/AZIMUTH: 90°/-

PIT No: 12
PROJECT No: 50888
DATE: 16 Apr 10
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		FILLING - Dark brown black silt and fine to medium grained sand filling; moist										
	0.25	SILTY CLAY - Soft to firm dark brown black silty clay with some fine to medium grained sand; M=Wp		D	0.25							
					0.5		pp 40-90 kPa					
	0.7	SAND AND SILT - Medium dense orange brown sand and silt; fine to medium grained sand; humid			0.75		pp 40-80 kPa					
				U50	1.0		pp 20-50 kPa					
					1.2							
				D	1.5							
	1.8	SANDY CLAY - Stiff to very stiff grey brown fine to medium grained sandy clay; M>Wp										
	1.8	CLAYEY SAND - Medium dense orange grey brown clayey fine to medium grained sand; damp										
	2.0	SANDY CLAY - Stiff to very stiff grey brown fine to medium grained sandy clay; M>Wp										
				D	2.25							
					2.4		pp 90-110 kPa					
	3.0	Pit discontinued at 3.0m depth - limit of investigation										

RIG: John Deere 315SJ excavator with 450mm wide toothed bucket

LOGGED: Lynch

WATER OBSERVATIONS: Groundwater seepage at 2.6m depth

☐ Sand Penetrometer AS1289.6.3.3

REMARKS:

☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	Δ	Water seep
		▽	Water level

CHECKED
Initials: <i>MA</i>
Date: 17.5.10



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TEST PIT LOG

CLIENT: AECOM Australia Pty Ltd
PROJECT: Oonoonba DPI
LOCATION: Oonoonba

SURFACE LEVEL: 3.6 AHD
EASTING: 480112
NORTHING: 7866760
DIP/AZIMUTH: 90°/-

PIT No: 15
PROJECT No: 50888
DATE: 16 Apr 10
SHEET 1 OF 1

Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)			
			Type	Depth	Sample	Results & Comments		5	10	15	20
0.15	SILTY SAND - Very loose to loose dark brown silty fine to medium grained sand; damp		D	0.75							
	SAND - Loose becoming medium dense gray brown fine to coarse grained sand; wet										
1.4	SANDY CLAY - Stiff grey dark brown fine grained sandy clay; M=Wp										
1.8	Pit discontinued at 1.8m depth due to pit wall collapse										

RIG: John Deere 315SJ excavator with 450mm wide toothed bucket

LOGGED: Lynch

WATER OBSERVATIONS: Groundwater seepage at 0.5m depth

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength (50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	▷	Water seep
		▽	Water level

CHECKED	
Initials:	MPA
Date:	17.5.10



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TEST PIT LOG

CLIENT: AECOM Australia Pty Ltd
PROJECT: Oonoonba DPI
LOCATION: Oonoonba

SURFACE LEVEL: 4.2 AHD
EASTING: 479868
NORTHING: 7866791
DIP/AZIMUTH: 90°/-

PIT No: 17
PROJECT No: 50888
DATE: 16 Apr 10
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing			Water	Dynamic Penetrometer Test (blows per 150mm)			
				Type	Depth	Sample		5	10	15	20
	0.15	SILTY SAND - Loose light brown silty fine to medium grained sand; humid									
		SILTY SAND - Loose to medium dense light brown silty fine to medium grained sand; humid									
	1.0			D	1.0						
	1.3	SANDY CLAY - Stiff to very stiff dark brown to black fine grained sandy clay; M<Wp									
				U50	1.5						
					1.95						
					2.2						
				D	2.75						
	3.1	SAND - Medium dense light brown fine to coarse grained sand; damp									
				D	3.3						
	3.5	Pit discontinued at 3.5m depth - limit of investigation									

RIG: John Deere 315SJ excavator with 450mm wide toothed bucket

LOGGED: Lynch

WATER OBSERVATIONS: No free groundwater observed

☐ Sand Penetrometer AS1289.6.3.3

REMARKS:

☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	▷	Water seep
		▽	Water level

CHECKED	
Initials:	<i>MA</i>
Date:	17.5.10



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TEST PIT LOG

CLIENT: AECOM Australia Pty Ltd
PROJECT: Oonoonba DPI
LOCATION: Oonoonba

SURFACE LEVEL: 4.5 AHD
EASTING: 479688
NORTHING: 7867204
DIP/AZIMUTH: 90°/-

PIT No: 25
PROJECT No: 50888
DATE: 16 Apr 10
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		SAND - Loose to medium dense brown fine to coarse grained sand with some gravel; humid		D	0.3							
	0.6	SAND - Medium dense dark brown fine to medium grained sand with some gravel; humid										
	1.8	Pit discontinued at 1.8m depth due to pit wall collapse										

RIG: John Deere 315SJ excavator with 450mm wide toothed bucket

LOGGED: Lynch

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3

☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Packet penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength test (50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	Δ	Water seep
		▽	Water level

CHECKED
Initials: <i>MD</i>
Date: 17.5.10



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TEST PIT LOG

CLIENT: AECOM Australia Pty Ltd
PROJECT: Oonoonba DPI
LOCATION: Oonoonba

SURFACE LEVEL: 4.3 AHD
EASTING: 479688
NORTHING: 7867408
DIP/AZIMUTH: 90°/-

PIT No: 26
PROJECT No: 50888
DATE: 16 Apr 10
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		SAND - Loose light brown fine to coarse grained sand; humid										
	0.4	SAND - Loose brown fine to coarse grained sand; humid		D	0.6							
	1.7	Pit discontinued at 1.7m depth due to pit wall collapse										

RIG: John Deere 315SJ excavator with 450mm wide toothed bucket

LOGGED: Lynch

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3

☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength ts(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	Δ	Water seep
		▽	Water level

CHECKED
Initials: <i>MLD</i>
Date: 17.5.10



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