

APPENDIX B3:D

Groundwater standpipe reports

Golder Associates

Document 137632097-013-R-Rev0

10 Oct 2013

APPENDIX D

APPENDIX B3:D



REPORT OF BOREHOLE: Zone 1B

CLIENT: Sunshine Coast Council
 PROJECT: Sunshine Coast Airport
 LOCATION: Sunshine Coast Airport
 JOB NO: 127683017

COORDS: 507789.0 m E 7059728.0 m N AMG84 56
 SURFACE RL: 0.00 m DATUM: AHD
 INCLINATION: -90°
 HOLE DIA: 100 mm HOLE DEPTH: 2.00 m

SHEET: 1 OF 1
 DRILL RIG: Hydrapower Scout
 CONTRACTOR: Geodrill
 LOGGED: BCT DATE: 27/9/12
 CHECKED: SAM DATE: 13/5/13

Drilling			Sampling	Field Material Description										
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS		
ADT	L	GROUNDWATER ENCOUNTERED @ 1.30 m	0	0.10		[Yellow dotted pattern]	SM SP	Silty SAND fine to medium grained, brown, trace organics	M			L Topsoil		
			-0.10		SAND fine to medium grained, pale grey, trace of silt			M				Alluvium		
			0.80	-0.80					becoming grey				MD	
			1										M - W	
H			1.50	-1.50		[Yellow dotted pattern]	SM	Silty SAND (INDURATED) fine to medium grained, dark grey and dark brown, weakly cemented	W			Perched watertable on indurated sand @ 1.30 m		
			2	-2.00							END OF BOREHOLE @ 2.00 m TARGET DEPTH STANDPIPE INSTALLED	M	D	
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											

This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for information only and do not necessarily indicate the presence or absence of soil or groundwater contamination. GAP gINT FN. F01a RL3

GAP 8_073 LIB GLB Log GAP NON-CORED FULL PAGE STANDPIPE GEO LOGS.GPJ <<DrawingFile>> 17/05/2013 14:05 8:30:003

APPENDIX B3:D



REPORT OF BOREHOLE: Zone 2A

CLIENT: Sunshine Coast Council
 PROJECT: Sunshine Coast Airport
 LOCATION: Sunshine Coast Airport
 JOB NO: 127683017

COORDS: 508400.0 m E 7058879.0 m N AMG84 56
 SURFACE RL: 0.00 m DATUM: AHD
 INCLINATION: -90°
 HOLE DIA: 100 mm HOLE DEPTH: 6.00 m

SHEET: 1 OF 1
 DRILL RIG: Hydrapower Scout
 CONTRACTOR: Geodrill
 LOGGED: BCT DATE: 28/9/12
 CHECKED: SAM DATE: 13/5/13

Drilling			Sampling	Field Material Description									
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS	
L	L	ADT	0	0.10			SM	Silty SAND fine to medium grained, dark grey and pale grey, trace organics				L	Topsoil
			-0.10			SP	SAND fine to medium grained, pale grey			M	MD		Alluvium
H	H	ADT	0.80	-0.80				becoming dark grey, trace silt		W			Perched watertable on indurated sand @ 0.80 m
			-1.00	-1.00		SM	Silty SAND (INDURATED) fine to medium grained, dark grey, weakly cemented			D			
			-1.40	-1.40			becoming strongly cemented			VD			
M	M	ADT	1.90	-1.90			SP	SAND fine to medium grained, grey and brown, some silt					
			-2.20	-2.20		SM	Silty SAND fine to medium grained, brown						
L	L	RD	2.70	-2.70			SP	SAND fine to medium grained, brown, trace silt				M	
			5.50	-5.50		SM	Silty SAND fine to medium grained, brown and pale brown						
			6.00	-6.00			END OF BOREHOLE @ 6.00 m TARGET DEPTH STANDPIPE INSTALLED						

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APPENDIX B3:D



REPORT OF BOREHOLE: Zone 2B

CLIENT: Sunshine Coast Council
 PROJECT: Sunshine Coast Airport
 LOCATION: Sunshine Coast Airport
 JOB NO: 127683017

COORDS: 508399.0 m E 7058879.0 m N AMG84 56
 SURFACE RL: 0.00 m DATUM: AHD
 INCLINATION: -90°
 HOLE DIA: 100 mm HOLE DEPTH: 1.20 m

SHEET: 1 OF 1
 DRILL RIG: Hydrapower Scout
 CONTRACTOR: Geodrill
 LOGGED: BCT DATE: 28/9/12
 CHECKED: SAM DATE: 13/5/13

Drilling			Sampling	Field Material Description										
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS			
ADT	L	GROUNDWATER ENCOUNTERED @ 0.80 m	0	0.10				Silty SAND			L	Topsoil		
			-0.10			x	SM	fine to medium grained, dark grey and pale grey, trace organics						
			0.80			.	SP	SAND			M		MD	
			-0.80			.		fine to medium grained, pale grey						
			1	-1.00				becoming dark grey with trace silt			W	Perched watertable on indurated sand @ 0.80 m		
				-1.00			x	Silty SAND (INDURATED)			M	D		
				-1.20			x	fine to medium grained, dark grey, weakly cemented						
								END OF BOREHOLE @ 1.20 m TARGET DEPTH STANDPIPE INSTALLED						
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											

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GAP gINT FN. F01a
RL3

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REPORT OF BOREHOLE: Zone 3A

CLIENT: Sunshine Coast Council
 PROJECT: Sunshine Coast Airport
 LOCATION: Sunshine Coast Airport
 JOB NO: 127683017

COORDS: 508906.0 m E 7058414.0 m N AMG84 56
 SURFACE RL: 0.00 m DATUM: AHD
 INCLINATION: -90°
 HOLE DIA: 100 mm HOLE DEPTH: 7.50 m

SHEET: 1 OF 1
 DRILL RIG: Hydrapower Scout
 CONTRACTOR: Geodrill
 LOGGED: BCT DATE: 27/9/12
 CHECKED: SAM DATE: 13/5/13

Drilling			Sampling	Field Material Description								
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
ADT	L	X	0	-0.05			SM	Silty SAND	M	L		Topsoil
			0.40			SP	fine to medium grained, dark grey and grey, trace organics	M	L	Alluvium		
M			0.40	-0.40			SM	SAND	M	L		Perched watertable @ 0.40 m
			1				fine to medium grained, grey, trace silt					
H			1.30	-1.30				SAND (INDURATED)		MD		becoming strongly cemented
			2				fine to medium grained, dark grey, weakly cemented					
RD	M		2.90	-2.90						M		becoming dark brown and brown
			3					SP	SAND			
			4.00	-4.00								becoming brown
			5									
			5.00	-5.00						W	MD	
			7.50	-7.50				END OF BOREHOLE @ 7.50 m				TARGET DEPTH
								STANDPIPE INSTALLED				

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APPENDIX B3:D



REPORT OF BOREHOLE: Zone 3B

CLIENT: Sunshine Coast Council
 PROJECT: Sunshine Coast Airport
 LOCATION: Sunshine Coast Airport
 JOB NO: 127683017

COORDS: 508905.0 m E 7058414.0 m N AMG84 56
 SURFACE RL: 0.00 m DATUM: AHD
 INCLINATION: -90°
 HOLE DIA: 100 mm HOLE DEPTH: 0.90 m

SHEET: 1 OF 1
 DRILL RIG: Hydrapower Scout
 CONTRACTOR: Geodrill
 LOGGED: BCT DATE: 27/9/12
 CHECKED: SAM DATE: 13/5/13

Drilling			Sampling	Field Material Description								
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
ADT	L	M	0	-0.05			SM	Silty SAND fine to medium grained, dark grey and grey with some trace organics	M	L	L	Topsoil
			0.40			SP						
			-0.40				SM	SAND fine to medium grained, grey with trace of silt		MD		Perched watertable @ 0.40 m
			1	-0.90				SAND (INDURATED) fine to medium grained, dark grey, weakly cemented		M		
								END OF BOREHOLE @ 0.90 m TARGET DEPTH STANDPIPE INSTALLED				
			2									
			3									
			4									
			5									
			6									
			7									
			8									
			9									
			10									

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REPORT OF BOREHOLE: Zone 4A

CLIENT: Sunshine Coast Council
 PROJECT: Sunshine Coast Airport
 LOCATION: Sunshine Coast Airport
 JOB NO: 127683017

COORDS: 507607.0 m E 7058376.0 m N AMG84 56
 SURFACE RL: 0.00 m DATUM: AHD
 INCLINATION: -90°
 HOLE DIA: 100 mm HOLE DEPTH: 8.50 m

SHEET: 1 OF 1
 DRILL RIG: Hydrapower Scout
 CONTRACTOR: Geodrill
 LOGGED: BCT DATE: 2/10/12
 CHECKED: SAM DATE: 13/5/13

Drilling			Sampling	Field Material Description															
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS							
ADT	L		0	0.00		[Yellow dotted pattern]	SP	SAND fine to medium grained, pale grey, trace organics no organics	L	MD		Topsoil Alluvium							
			-0.10	0.60			becoming grey												
			-0.60	-0.80			SM	Silty SAND (INDURATED) fine to medium grained, dark brown, with trace of silt, weakly cemented											
			-1.30	-1.30			becoming strongly cemented												
			1																
			2																
			3																
			4																
			5																
			6																
RD	H		3.90	-3.90			SP	SAND fine to medium grained, brown, with trace of silt	M	VD									
			4.30	-4.30		becoming brown, weakly cemented													
			5																
			6																
			7																
			8																
			9																
			10																
			11																
			L-M			6.70	-6.70							SM	Silty SAND fine to medium grained, grey	W	MD-D		
7																			
8																			
9																			
10																			
11																			
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APPENDIX B3:D



REPORT OF BOREHOLE: Zone 4B

CLIENT: Sunshine Coast Council
 PROJECT: Sunshine Coast Airport
 LOCATION: Sunshine Coast Airport
 JOB NO: 127683017

COORDS: 507608.0 m E 7058376.0 m N AMG84 56
 SURFACE RL: 0.00 m DATUM: AHD
 INCLINATION: -90°
 HOLE DIA: 100 mm HOLE DEPTH: 1.20 m

SHEET: 1 OF 1
 DRILL RIG: Hydrapower Scout
 CONTRACTOR: Geodrill
 LOGGED: BCT DATE: 2/10/12
 CHECKED: SAM DATE: 13/5/13

Drilling			Sampling		Field Material Description									
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS		
ADT	L	GROUNDWATER NOT ENCOUNTERED	0	0.00								L	Topsoil	
			-0.10											Alluvium
			0.60											
			-0.60											
M			0.80					becoming grey				M	MD	
			-0.80							SM	Silty SAND (INDURATED) fine to medium grained, dark brown, trace silt, weakly cemented			
			1	-1.20				END OF BOREHOLE @ 1.20 m TARGET DEPTH STANDPIPE INSTALLED						
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											

GAP 8_073 LIB GLB Log GAP NON-CORED FULL PAGE STANDPIPE GEO LOGS.GPJ <<DrawingFile>> 17/05/2013 14:06 8:30:003

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APPENDIX B3:D



REPORT OF BOREHOLE: Zone 5B

CLIENT: Sunshine Coast Council
 PROJECT: Sunshine Coast Airport
 LOCATION: Sunshine Coast Airport
 JOB NO: 127683017

COORDS: 507414.0 m E 7058786.0 m N AMG84 56
 SURFACE RL: 0.00 m DATUM: AHD
 INCLINATION: -90°
 HOLE DIA: 100 mm HOLE DEPTH: 1.55 m

SHEET: 1 OF 1
 DRILL RIG: Hydrapower Scout
 CONTRACTOR: Geodrill
 LOGGED: BCT DATE: 28/9/12
 CHECKED: SAM DATE: 13/5/13

Drilling			Sampling	Field Material Description								
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
ADT	L	GROUNDWATER ENCOUNTERED @ 0.30 m	0	0.10			SM	Silty SAND				Topsoil Alluvium Perched water table on indurated sand. Water level @ 0.3m BGL
			-0.20			SP	fine to medium grained, dark grey and grey, trace organics					
M			0.70	-0.70				SAND				
			becoming grey									
			1.10	-1.10			SM	Silty SAND (INDURATED)				
			1.50	-1.50				fine to medium grained, dark grey, weakly cemented				
								becoming dark brown				
								becoming strongly cemented				
								END OF BOREHOLE @ 1.55 m				
								TARGET DEPTH				
								STANDPIPE INSTALLED				

GAP 8_073 LIB.GLB Log GAP NON-CORED FULL PAGE STANDPIPE GEO LOGS.GPJ <<DrawingFile>> 17/05/2013 14:06 8:30:003

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APPENDIX B3:D



REPORT OF BOREHOLE: Zone 1B

CLIENT: Sunshine Coast Council
 PROJECT: Sunshine Coast Airport
 LOCATION: Sunshine Coast Airport
 JOB NO: 127683017

COORDS: 507789.0 m E 7059728.0 m N AMG84 56
 SURFACE RL: 0.00 m DATUM: AHD
 INCLINATION: -90°
 HOLE DIA: 100 mm HOLE DEPTH: 2.00 m

SHEET: 1 OF 1
 DRILL RIG: Hydrapower Scout
 CONTRACTOR: Geodrill
 LOGGED: BCT DATE: 27/9/12
 CHECKED: SAM DATE: 13/5/13

Drilling		Sampling	Field Material Description and Instrumentation					
METHOD	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	SOIL/ROCK MATERIAL DESCRIPTION	AIRLIFT YIELD (L/s)	CONSTRUCTION
ADT	GROUNDWATER ENCOUNTERED @ 1.30m	0.70	-0.10			Silty SAND fine to medium grained, brown, trace organics		
		0.80	-0.80			SAND fine to medium grained, pale grey, trace of silt becoming grey		
		1.50	-1.50			Silty SAND (INDURATED) fine to medium grained, dark grey and dark brown, weakly cemented		
		2.00	-2.00			END OF BOREHOLE @ 2.00 m TARGET DEPTH STANDPIPE INSTALLED		

GAP 8_073 LIB.GLB Log_GAP_WELL_STANDPIPE GEO.LOGS.GPJ <<DrawingFile>> 17/05/2013 14:08 8_30.003

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GAP gINT FN. F05
RL3

APPENDIX B3:D



REPORT OF BOREHOLE: Zone 2A

CLIENT: Sunshine Coast Council
 PROJECT: Sunshine Coast Airport
 LOCATION: Sunshine Coast Airport
 JOB NO: 127683017

COORDS: 508400.0 m E 7058879.0 m N AMG84 56
 SURFACE RL: 0.00 m DATUM: AHD
 INCLINATION: -90°
 HOLE DIA: 100 mm HOLE DEPTH: 6.00 m

SHEET: 1 OF 1
 DRILL RIG: Hydrapower Scout
 CONTRACTOR: Geodrill
 LOGGED: BCT DATE: 28/9/12
 CHECKED: SAM DATE: 13/5/13

Drilling		Sampling	Field Material Description and Instrumentation					
METHOD	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	SOIL/ROCK MATERIAL DESCRIPTION	AIRLIFT YIELD (L/s)	CONSTRUCTION
ADT	GROUNDWATER ENCOUNTERED @ 0.80 m	-1						
		0	0.70			Silty SAND fine to medium grained, dark grey and pale grey, trace organics		Moment protector "Zone 2A"
			-0.10			SAND fine to medium grained, pale grey		PVC Stickup -0.70 m
			0.80			becoming dark grey, trace silt		Grout - cement (0.00 m - 0.20 m)
			-0.80			Silty SAND (INDURATED) fine to medium grained, dark grey, weakly cemented		Backfill (0.20 m - 1.00 m)
			-1.00			becoming strongly cemented		
			1.40			SAND fine to medium grained, grey and brown, some silt		
			-1.40			Silty SAND fine to medium grained, brown		
			1.90			SAND fine to medium grained, brown, trace silt		Screen below 2.70 m
			-1.90					Geotextile sock over screen section
RD		2	2.20					
			-2.20			Silty SAND fine to medium grained, brown		Sand (2 mm to 3 mm grain size), (2.70 m - 5.70 m)
			2.70					End plug
			-2.70					
		3						
		4						
		5						
			5.50					
			-5.50			Silty SAND fine to medium grained, brown and pale brown		
			6.00			END OF BOREHOLE @ 6.00 m TARGET DEPTH STANDPIPE INSTALLED		
	-6.00							
	7							
	8							
	9							

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GAP gINT FN. F05
RL3

APPENDIX B3:D



REPORT OF BOREHOLE: Zone 2B

CLIENT: Sunshine Coast Council
 PROJECT: Sunshine Coast Airport
 LOCATION: Sunshine Coast Airport
 JOB NO: 127683017

COORDS: 508399.0 m E 7058879.0 m N AMG84 56
 SURFACE RL: 0.00 m DATUM: AHD
 INCLINATION: -90°
 HOLE DIA: 100 mm HOLE DEPTH: 1.20 m

SHEET: 1 OF 1
 DRILL RIG: Hydrapower Scout
 CONTRACTOR: Geodrill
 LOGGED: BCT DATE: 28/9/12
 CHECKED: SAM DATE: 13/5/13

Drilling		Sampling	Field Material Description and Instrumentation					
METHOD	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	SOIL/ROCK MATERIAL DESCRIPTION	AIRLIFT YIELD (L/s)	CONSTRUCTION
ADT		-1						
		0	0.70 -0.10		X	Silty SAND fine to medium grained, dark grey and pale grey, trace organics		
			0.80 -1.00		X	SAND fine to medium grained, pale grey becoming dark grey with trace silt		
			-1.00 -1.20		X	Silty SAND (INDURATED) fine to medium grained, dark grey, weakly cemented		
			-1.20			END OF BOREHOLE @ 1.20 m TARGET DEPTH STANDPIPE INSTALLED		

GAP 8_073 LIB GLB Log GAP WELL STANDPIPE GEO LOGS GRJ <DrawingFile> 17/05/2013 14:08 8_30.003

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GAP gINT FN. F05
RL3

APPENDIX B3:D



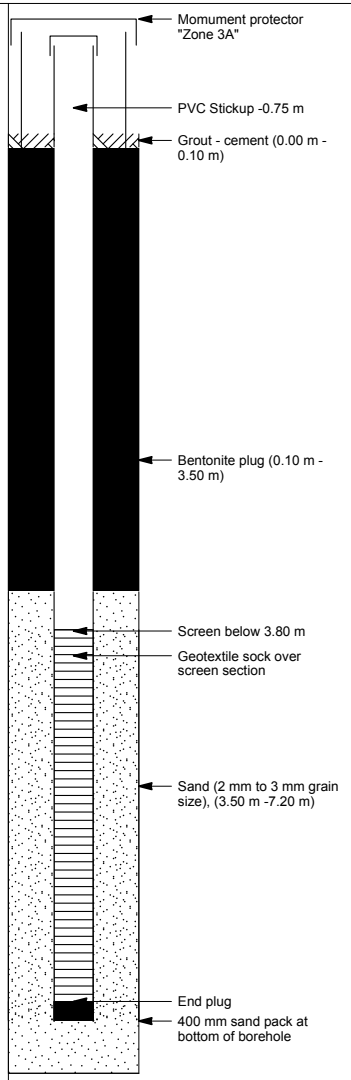
REPORT OF BOREHOLE: Zone 3A

CLIENT: Sunshine Coast Council
 PROJECT: Sunshine Coast Airport
 LOCATION: Sunshine Coast Airport
 JOB NO: 127683017

COORDS: 508906.0 m E 7058414.0 m N AMG84 56
 SURFACE RL: 0.00 m DATUM: AHD
 INCLINATION: -90°
 HOLE DIA: 100 mm HOLE DEPTH: 7.50 m

SHEET: 1 OF 1
 DRILL RIG: Hydrapower Scout
 CONTRACTOR: Geodrill
 LOGGED: BCT DATE: 27/9/12
 CHECKED: SAM DATE: 13/5/13

Drilling		Sampling	Field Material Description and Instrumentation					
METHOD	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	SOIL/ROCK MATERIAL DESCRIPTION	AIRLIFT YIELD (L/s)	CONSTRUCTION
			-1					
			0					
			-0.05					
			0.40					
			-0.40					
			1					
			1.30					
			-1.30					
			2					
			2.90					
			-2.90					
			3					
			4					
			4.00					
			-4.00					
			5					
			5.00					
			-5.00					
			6					
			7					
			7.50					
			-7.50					
			8					
			9					



This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for information only and do not necessarily indicate the presence or absence of soil or groundwater contamination.

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APPENDIX B3:D



REPORT OF BOREHOLE: Zone 5B

CLIENT: Sunshine Coast Council
 PROJECT: Sunshine Coast Airport
 LOCATION: Sunshine Coast Airport
 JOB NO: 127683017

COORDS: 507414.0 m E 7058786.0 m N AMG84 56
 SURFACE RL: 0.00 m DATUM: AHD
 INCLINATION: -90°
 HOLE DIA: 100 mm HOLE DEPTH: 1.55 m

SHEET: 1 OF 1
 DRILL RIG: Hydrapower Scout
 CONTRACTOR: Geodrill
 LOGGED: BCT DATE: 28/9/12
 CHECKED: SAM DATE: 13/5/13

Drilling		Sampling	Field Material Description and Instrumentation					
METHOD	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	SOIL/ROCK MATERIAL DESCRIPTION	AIRLIFT YIELD (L/s)	CONSTRUCTION
ADT	GROUNDWATER ENCOUNTERED @ 0.30 m	0.70	-0.20			Silty SAND fine to medium grained, dark grey and grey, trace organics		
		0.70	-0.20			SAND fine to medium grained, pale grey, with trace silt becoming grey		
		0.70	-0.70			Silty SAND (INDURATED) fine to medium grained, dark grey, weakly cemented		
		1.10	-1.10			becoming dark brown		
		1.50	-1.55			becoming strongly cemented END OF BOREHOLE @ 1.55 m TARGET DEPTH STANDPIPE INSTALLED		

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RL3