

# 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 1A

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

COORDS: 507788.0 m E 7059728.0 m N AMG84 56  
 SURFACE RL: 0.00 m DATUM: AHD  
 INCLINATION: -90°  
 HOLE DIA: 100 mm HOLE DEPTH: 9.00 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 @ 1.30m	0	-0.10		[Yellow dotted pattern]	SM	Silty SAND fine to medium grained, brown, trace organics	M		L	Topsoil		
				0.80			SP	SAND fine to medium grained, pale grey, trace of silt			MD	Alluvium		
				-0.80						becoming grey		M - W		
				1.50										
				-1.50										
				2.00										
				-2.00										
				2.50										
				-2.50										
				3.00										
				-3.60										
	4.00													
	-4.40													
	5.00													
	6.00													
	-6.00													
	7.00													
	-7.50													
	8.00													
	-8.20													
	9.00													
	-9.00													
	10.00													
	-11.00													

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GAP gINT FN. F01a  
RL3

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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										
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	Silty SAND fine to medium grained, brown, trace organics	M		L	Topsoil		
			-0.10		SP		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		D	Perched watertable on indurated sand @ 1.30 m		
			2	-2.00							END OF BOREHOLE @ 2.00 m TARGET DEPTH STANDPIPE INSTALLED			
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											

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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					SP	fine to medium grained, dark grey and pale grey, trace organics			M	Alluvium
			0.80						SAND			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				Silty SAND (INDURATED)		M	D		
				-1.20				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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# 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								
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				Perched watertable @ 0.40 m
			1				fine to medium grained, grey, trace silt					
H			1	-1.30				SAND (INDURATED)		MD		
			2	-1.30			fine to medium grained, dark grey, weakly cemented			D		
RD	M		2	1.30				becoming strongly cemented		M		
			3	-1.30								
			3	-2.90								
			4	-4.00								
			4	-4.00				becoming dark brown and brown				
			5	-5.00								
			5	-5.00				becoming brown		W		
			6									
			6									
			7									
			7									
			8	-7.50					END OF BOREHOLE @ 7.50 m			
			8					TARGET DEPTH				
			9						STANDPIPE INSTALLED			
			9									
			10									

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RL3

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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									
			0.40	-0.40			SM	SAND fine to medium grained, grey with trace of silt				
			1	-0.90				SAND (INDURATED) fine to medium grained, dark grey, weakly cemented				
								END OF BOREHOLE @ 0.90 m TARGET DEPTH STANDPIPE INSTALLED				
			2									
			3									
			4									
			5									
			6									
			7									
			8									
			9									
			10									

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# APPENDIX B3:D



## REPORT OF BOREHOLE: Zone 5A

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

COORDS: 507415.0 m E 7058786.0 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: 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			L	Topsoil
				-0.20			SP	fine to medium grained, dark grey and grey, trace organics	M	MD	Alluvium	
				0.70					SAND		D	Perched water table on indurated sand.
				-0.70					fine to medium grained, pale grey, trace silt			Water level @ 0.3m BGL
				1.10					becoming grey			
				-1.10					Silty SAND (INDURATED)			
				1.50					fine to medium grained, dark grey, weakly cemented			
				-1.50					becoming dark brown			
				2.00					becoming strongly cemented			
				-2.00								
RD	M		3.60	-3.60				becoming brown, weakly cemented				
			4.00	-4.00			SP	SAND				
									fine to medium grained, brown			
									becoming brown and grey			
M			5.20	-5.20								
									becoming grey			
			6.00	-6.00								
			8.00	-8.00								
			8.50	-8.50								
								END OF BOREHOLE @ 8.50 m				
								TARGET DEPTH				
								STANDPIPE INSTALLED				

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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			SM	SAND				
			1.10	-1.10			becoming grey					
			1.50	-1.50				Silty SAND (INDURATED)				
								fine to medium grained, dark grey, weakly cemented				
								becoming dark brown				
								becoming strongly cemented				
								END OF BOREHOLE @ 1.55 m				
								TARGET DEPTH				
								STANDPIPE INSTALLED				

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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 @ 1.30 m	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		

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GAP gINT FN. F05  
RL3

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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 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			Silty SAND fine to medium grained, dark grey and pale grey, trace organics SAND fine to medium grained, pale grey becoming dark grey with trace silt		
			1			Silty SAND (INDURATED) fine to medium grained, dark grey, weakly cemented		
			1.20			END OF BOREHOLE @ 1.20 m TARGET DEPTH STANDPIPE INSTALLED		

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GAP gINT FN. F05  
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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 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 NOT ENCOUNTERED	0.00	-0.10			SAND fine to medium grained, pale grey, trace organics no organics		
		0.60	-0.60			becoming grey		
		0.80	-0.80			Silty SAND (INDURATED) fine to medium grained, dark brown, trace silt, weakly cemented		
		1.20	-1.20			END OF BOREHOLE @ 1.20 m TARGET DEPTH STANDPIPE INSTALLED		

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RL3

# APPENDIX B3:D



## REPORT OF BOREHOLE: Zone 5A

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

COORDS: 507415.0 m E 7058786.0 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: 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
								<ul style="list-style-type: none"> <li>Monument protector "Zone 5A"</li> <li>PVC Stickup -0.68 m</li> <li>Grout - cement (0.00 m - 0.20 m)</li> <li>Backfill (0.20 m - 0.70 m)</li> <li>Bentonite Plug (0.70 m - 4.70 m)</li> <li>Screen below 5.20 m</li> <li>Geotextile sock over screen section</li> <li>Sand (2 mm to 3 mm grain size), (4.70 m-8.50 m)</li> <li>End plug 300 mm sand pack at bottom of borehole</li> </ul>
		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, 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	-1.50			becoming strongly cemented		
		3.60	-3.60			becoming brown, weakly cemented		
		4.00	-4.00			SAND fine to medium grained, brown		
		5.20	-5.20			becoming brown and grey		
		6.00	-6.00			becoming grey		
		8.00	-8.00			Silty SAND fine to medium grained, grey, trace clay		
		8.50	-8.50			END OF BOREHOLE @ 8.50 m TARGET DEPTH STANDPIPE INSTALLED		

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GAP gINT FN. F05  
RL3

# 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	-0.70			SAND fine to medium grained, pale grey, with trace silt becoming grey		
		1.10	-1.10			Silty SAND (INDURATED) fine to medium grained, dark grey, weakly cemented		
		1.50	-1.55			becoming dark brown		
						becoming strongly cemented END OF BOREHOLE @ 1.55 m TARGET DEPTH STANDPIPE INSTALLED		

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