

Hydrogeological Assessment - Camperdown Development, Town of the Blue Mountains

Cambium Reference No.: 7072-001

2018-02-15

Prepared for: Romspen FC Homes



Cambium Inc.

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Executive Summary

Romspen FC Homes contracted Cambium Inc. to complete a hydrogeological assessment at the Site located on Part of Lot 26, Concession 6, in the Town of the Blue Mountains, County of Grey and fronts onto Old Lakeshore Road.

The hydrogeological assessment was required by the Grey Sauble Conservation Authority to determine the depth of bedrock and the position of the water table on-site.

In total eight (8) test-pits were advanced across the site to a maximum depth of 3.05 metres below ground surface or to the bedrock contact. Upon completion of the test-pit investigation three soil samples were submitted for grain size analysis.

The results of the test-pit investigation indicate that the thickness of the overburden soils is relatively thin, considering only two of the test-pits were extended to a depth of 3.05 metres below ground surface without encountering bedrock. The grain size analysis determined that the native soils were primarily fine grained, however sporadic deposits of coarser grained soils were encountered.

Groundwater was observed near the overburden/bedrock interface or within the bedrock in five (5) of the eight (8) test-pits advanced on-site.

A review of the Ministry of Environment and Climate Change Water Well Information System indicated that there were seven well records recorded within 500 m of the Site. The well records indicated that the wells were completed into the bedrock at variable depths. The water well records did corroborate the findings of the test-pit investigation which indicated that the overburden deposits are relatively shallow and comprised primarily of fine grained soils (with sporadic coarser grained deposits).

The stormwater management controls designed for the Site should account for the hydrogeological conditions described herein.



Romspen FC Homes Ref. No.: 7072-001

2018-02-15

Respectfully submitted,

Cambium Inc.

C CAMERON J. MACDOUGALL OF PRACTISING MEMBER 2676

Cameron MacDougall, P.Geo.

Environmental Specialist

CJM

P-\7000 to 7099\7072-001 Rompsen FC Homes - Hydrogeological Assessment - Camperdown, Blue Mountains\Deliverables\REPORT - Hydrogeological Assessment\Fina\2018-02-15 Camperdown Hydrogeological Assessment - FINAL docx



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1.0 Introduction

Cambium Inc. (Cambium) was retained by Romspen FC Homes to complete a hydrogeological assessment at a property located on Old Lakeshore Road in Camperdown, Ontario (hereafter referred to as the Site). The Site has no civic address, but is located just east of the intersection with Camperdown Road. The hydrogeological assessment was required by the Grey Sauble Conservation Authority (GSCA) to determine the position of the water table and depth to bedrock for storm water management implications for a proposed 40 unit residential development at the Site. This report outlines the findings of the hydrogeological assessment completed by Cambium and intends to satisfy the requirements set forth by the GSCA and the Town of the Blue Mountains (Town).

1.1 Site Description

The Site is located in Camperdown, which is approximately 15 kilometres (km) west of Collingwood and is located on Part of Lot 26, Concession 6, in the Town of the Blue Mountains, County of Grey. The total Site area is approximately 6.61 hectares (ha) and fronts onto Old Lakeshore Road. An outline of the property boundaries of the Site has been attached as Figure 1.

The Site is currently undeveloped and exists as forested land. Most of the property exists as relatively flat land that slopes marginally northwards, towards Georgian Bay. The slope increases dramatically in the southern third of the Site (approximately). This area is also heavily vegetated and backs onto a small residential subdivision. The land use to the south and north is residential and rural residential (respectively) and forested lands are found adjacent the Site to the east and west.

According to GSCA mapping, the southern and eastern fringes of the Site fall within regulated areas. Additionally, a small area of regulated land is found on-Site just south of Old Lakeshore Road. A map of the regulated areas has been attached in Appendix A.

According to the Ontario Flow Assessment Tool (Ministry of Natural Resources and Forestry, 2014) there are no streams or rivers found on-Site.

2.0 Methodology

2.1 Background Information

A thorough review of the available relevant background information was undertaken for this study, which included the following:

- Armstrong, D.K. and Dodge, J.E.P., 2007. Paleozoic geology of southern Ontario;
 Ontario Geological Survey, Miscellaneous Release--Data 219
- Ontario Geological Survey, 2010. Surficial geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 128-REV

2.2 Test-Pit Investigation

On January 22, 2018 a test-pit investigation was completed by Cambium to determine the subsurface conditions across the property. Prior to the field work public locates were obtained and a health and safety plan was prepared for the Site.

The test-pits were excavated using a tracked excavator under the supervision of a Cambium technician. A total of 8 test-pits, designated as TP101-18 through TP108-18 were advanced throughout the Site. Samples of each soils horizon were collected and logged. Open test-pits were backfilled with excavated soils and compacted with the excavator bucket. The logs of the test-pits have been attached as Appendix B.

An attempt was made to advance test-pits in the area of the Site that will remain as open space (i.e. the southern portion of the Site). However, the excavator could not safely access these areas due to the relatively steep slopes.

Three (3) soil samples were submitted to Cambium's geotechnical laboratory for grain size analysis. The laboratory results of the grain size analyses are attached in Appendix C. The results of the test-pit investigation and the grain size analyses are discussed in the following sections.



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3.0 Hydrogeological and Geological Setting

3.1 Topography and Drainage

As discussed previously, most of the Site is flat and exhibits a shallow slope, dipping northwards towards Georgian Bay, while steep slopes are present along the southern boundary of the Site. Runoff is interpreted to flow northwards off-Site and discharge into a shallow ditch located on the southern side of Old Lakeshore Road.

3.2 Geological and Hydrogeological Conditions

The bedrock in the area of the Site is described as being part of the Blue Mountain Formation (Armstrong, D.K. and Didge, J.E.P., 2007). The Blue Mountain Formation is described as blue-grey to grey-brown shales with thin, minor interbeds of limestone and siltstone (Ontario Geological Survey, 2010).

According to the text titled *Physiography of Southern Ontario (Third Edition)* (Chapman, L.J. and D.F. Putnam, 1984) the Site is primarily located within the physiographic region known as the Beaver Valley. The Beaver Valley is a small, but well defined region of approximately 200 km² that occupies a sharply cut indentation in the Niagara cuesta opening upon Georgian Bay.

The quaternary geology mapping of the Site indicates that there is Paleozoic bedrock found at surface in the area (Ontario Geological Survey, 2010).

Although the results of the test-pit investigation indicated that bedrock was not encountered at surface on-site, the depth of the overburden soils were observed to be relatively thin, overlying the shale bedrock. The results of the test-pit investigation are discussed in the following section.



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4.0 Results and Discussion

Eight (8) test-pits were advanced across the Site. The test-pits were advanced to depths ranging between 1.22 metres below ground surface (mbgs) and 3.05 mbgs.

Clay and silt/clayey silt soils were encountered at surface at each test-pit. The depth of these soils ranged between 0.76 mbgs and 2.44 mbgs, and were reported to contain some to trace gravel. One representative sample of this soil type was collected from TP103-18 and submitted for grain size analysis.

At test-pits TP101-18, TP102-18, TP107-18 and TP108-18 soils comprising primarily of clay were reported to be underling the clay and silt/clayey silt soils. A sample of the clay soil was collected from TP108-18 and submitted for grain size analysis.

Coarser soils consisting of silty sand and sand and gravel were encountered at test-pits TP101-18 and TP106-18, respectively. These soils were observed beneath the units described above. A sample of the sand and gravel collected from TP106-18 was submitted for grain size analysis.

The soils outlined above were mostly described as being dense/compact and moist to saturated.

It is noted that at test-pit TP104-18 a clay drainage pipe was encountered at a depth of 1.22 mbgs. Some water was observed to be flowing out of the broken pipe.

4.1.1 Grain Size Analyses

As described above, soil samples collected from TP103-18, TP106-18 and TP108-18 were submitted for grain size analysis. The results of the grain size analyses are outlined below:

TP103-18: Sample GS1

This soil was described as a silty sandy clay, some gravel and cobbles (which were interpreted to be shale) and extended from surface to a depth of 0.76 mbgs.



This soil was classified as CL according to the Unified Soil Classification System and comprised of 27% sand and 73% fines.

TP106-18: Sample GS2

• This soil was described as sandy gravel, some silt, trace clay. Cobbles were also noted in the test-pit but they have been interpreted to be part of the weathered shale bedrock. This soil sample extended from 1.83 mbgs and 2.13 mbgs. This soil was classified as GW according to the Unified Soil Classification System and comprised of 41% gravel, 32% sand and 27% fines.

TP108-18: Sample GS2

This soil was described as clay and silt. This soil sample extended from 2.44 mbgs and 3.05 mbgs. This soil was classified as CL-ML according to the Unified Soil Classification System and comprised of 100% fines.

4.1.2 Bedrock and Groundwater

The bedrock was observed to be shale. Test-pits TP101-18 through TP106-18 encountered shale at depths ranging between 0.76 mbgs and 2.74 mbgs. Each test-pit, where shale was encountered, was advanced beyond the initial shale contact (with the exception of TP102-18, which was terminated at the assumed shale contact). Test-pits TP107-18 and TP108-18 were advanced to a depth of 3.05 mbgs without encountering bedrock.

Test-pits TP101-18, TP104-18, TP105-18, TP106-18 and TP107-18 reported groundwater flowing into the excavation. The remaining test-pits generally reported moist to wet soils, but no flowing water. The depth at which flowing water was encountered ranged between 1.00 mbgs and 2.44 mbgs.

Information pertaining to the depths at which bedrock and groundwater were encountered at each test-pit has been outlined in Embedded Table 1.



Embedded Table 1 Bedrock and Groundwater Information

Test-Pit	Depth of Initial Bedrock Contact	Depth of Advancement Through Bedrock	Total Depth of Test-Pit	Depth of Groundwater
	(mbgs)	(m)	(mbgs)	(mbgs)
TP101-18	1.37	0.76	2.13	1.20
TP102-18	2.74	0.00	2.74	Not observed
TP103-18	0.76	0.46	1.22	Not observed
TP104-18	1.22	0.30	1.52	1.30
TP105-18	0.61	0.61	1.22	1.00 to 1.30
TP106-18	2.13	0.92	3.05	1.83 to 2.13
TP107-18	Not encountered	N/A	3.05	2.44
TP108-18	Not encountered	N/A	3.05	Not observed

4.1.3 Water Well Records Review

The Ministry of Environment and Climate Change (MOECC) Water Well Information System (WWIS) was accessed to review borehole records that were found within 500 m of the Site.

In total there were seven (7) water well records found within 500 m of the Site. Of the seven (7) records, two (2) recorded the abandonment of a well. The remaining five (5) reported the installation of a drilled well. The wells were installed to depths ranging between 7.9 mbgs and 25.3 mbgs. Four (4) wells were installed in limestone bedrock and one (1) was installed in shale bedrock.

When the information was included, it was reported that groundwater was encountered between 14.63 mbgs and 24.39 mbgs (in the bedrock). Static water levels were reported to range between 2.44 mbgs and 18.29 mbgs.

The overburden materials were recorded to be fine grained soils, sporadically interbedded with sandy soils.

4.1.4 Summary and Recommendations

The results of the test-pit investigation indicated that the thickness of the overburden found on-Site is relatively thin, since only two (2) test-pits did not encounter bedrock within the upper 3.05 m of overburden. The overburden was comprised primarily of fine grained silt and clay



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soils. Coarser grained soils were also reported on-Site, however their presence was sporadic (only being reported at two (2) test-pits).

Five (5) test-pits extended beyond the initial bedrock contact into, what has been interpreted to be incompetent shale bedrock (indicating that the bedrock quality of the shale at the overburden bedrock interface is likely low).

Groundwater was observed to be relatively shallow on-Site, ranging between 1.00 mbgs and 2.44 mbgs. The groundwater was observed to be flowing near the bedrock/overburden interface or within the bedrock itself. The groundwater encountered on-Site is considered to be part of the same aguifer that is found in the overburden and shallow bedrock.

The presence of fine grained soils at surface was corroborated by the review of MOECC water well records. The depth at which groundwater was encountered (when that information was included) was reported to be within bedrock. As such, the groundwater that was reported from the MOECC well logs is likely a part of a deeper bedrock aquifer or aquifers.

The stormwater management controls designed for the Site should account for the geological and hydrogeological conditions described herein.



5.0 Conclusions

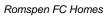
Romspen FC Homes contracted Cambium to complete a hydrogeological assessment at the Site located on Part of Lot 26, Concession 6, in the Town of the Blue Mountains, County of Grey and fronts onto Old Lakeshore Road. Upon completion of the hydrogeological assessment it was determined that the overburden soils were relatively thin and comprised mainly of fine grained soils. The bedrock was reported to be of poor quality due to the ability of the excavator to advance through the shale. Groundwater was reported to be relatively shallow across the Site and was observed near the overburden/bedrock interface or within the bedrock.

The stormwater management controls designed for the Site should account for the geological and hydrogeological conditions described herein.



References

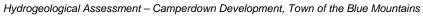
- Armstrong, D.K. and Didge, J.E.P. (2007). Paleozoic geology of southern Ontario; Ontario Geological Survey, Miscellanesous Release -- Data 219.
- Chapman, L.J. and D.F. Putnam. (1984). *The Physiography of Southern Ontario: Ontario Geological Survey, Special Volume 2.*
- Ministry of Natural Resources and Forestry. (2014). *Ontario Flow Assessment Tool.* Retrieved 02 05, 2018, from http://www.gisapplication.lrc.gov.on.ca/OFAT/Index.html?site=OFAT&viewer=OFAT&loc ale=en-US
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Appended Figures	



HYDROGEOLOGICAL ASSESSMENT

INNOVATIVE PLANNING SOLUTIONS

Camperdown, Blue Mountains, Part of Lot 26, Concession 6, Town of The Blue Mountains, County of Grey, Ontario

LEGEND



Test Pit Location



Notes:
- Conceptual Draft Plan of Subdivision - Camperdown, Town of the Blue
Mountains was obtained from Innovative Planning Solutions, Dated February

Mountains was obtained from Innovative Planning Solutions, Dated February 9, 2018.

- Base mapping features are © Queen's Printer of Ontario, 2015 (this does not constitute an endorsement by the Ministry of Natural Resources or the Ontario Government).

- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.

- Camblum Inc. makes every effort to ensure this map is free from errors but

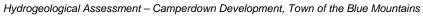
- Cannot be held responsible for any damages due to error or omissions. This map should not be used for anyigation or legal purposes. It is intended for general reference use only.



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SITE PLAN

	Project No.:		Date:	February 2018
П		7072-001	Rev.:	
П	Scale:		Projection	on:
П		1:2,500	NAD	1983 UTM Zone 17N
П	Created by:	Checked	d by:	Figure:
	TLC	· I	K/W	7



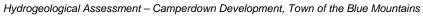


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	Appendix A	4
GSCA	Regulated Area	S





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2018-02-15

Appendix	В
est-pit Log	าร

TEST PIT LOGS

Innovative Planning Solutions - Camperdown, Blue Mountains

Technician: J.Macphail

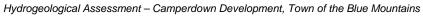
Cambium Reference No. 7072-001 Completed January, 22, 2018



		l		П	
Test Pit ID	Depth	Soil	Material Description	UTM Co	ordinates
TEST FILLID	(mbgs ¹)	Sample	Material Description	Zon	e 17T
TP101-18	0 - 0.76	GS1	Brown clayey silt, some rootlets & organics, stiff, moist	548241	4931437
101 10	0.76 - 0.91	GS2	Grey brown clay, trace rootlets, stiff, moist	3 .02 .1	1332 137
	0.91 - 1.37	GS3	Light brown silty sand, some gravel, compact, moist to saturated		
	1.37 - 2.13	GS4	Shale Bedrock		
	2.13		Test pit terminated at 2.31 mbgs, free flowing water at 1.2 mbgs		
			Less then 10 cm of water at base of testpit at completion		
			· · ·		
TP102-18	0 - 0.76	GS1	Medium brown clayey silt, some rootlets & organics, stiff, moist	548210	4931389
	0.76 - 2.74	GS2	Brownish grey clay, stiff, moist		
			Rootlets at 1.3 mgbs		
	2.74		Test-pit terminated at 2.74 mbgs on bedrock, test-pit dry upon completion		
TP103-18	0 - 0.76	GS1	Darkbrown silty sandy clay, some rootlets & organics, some shale, stiff, saturated	548207	4931441
	0.76 - 1.22	GS2	Shale		
	1.22		Test pit terminated at 1.22 mbgs, test-pit dry upon completion		
TP104-18	0 - 0.61	GS1	Dark brown clayey silt, trace gravel, some organics & rootlets, stiff, saturated	548077	4931425
	0.61 - 0.76	GS2	Shale		
	0.76 - 1.22	GS3	Light brown clayey silt, some shale, stiff, saturated		
	1.22 - 1.52	GS4	Shale, trace sand, very stiff, saturated		
	1.52		Testpit terminated at 1.52 mbgs in bedrock, freeflowing water at 1.3mbgs		
			0.1 m of water at base of test-pit upon completion		
			Note: weeper/drainage pipe was found at 1.22 mbgs		
TP105-18	0 - 0.61	GS1	Darkbrown clayey silt, some rootlets &organics, some gravel, stiff, saturated	E49097	4931451
11103-10	0-0.01	GS2	Shale, trace sand, trace clay, stiff, saturated	340007	4531431
	1.22	032	Test-pit terminated at 1.22 mbgs in bedrock, free flowing water between 1.0 mbgs		
	1.22		and 1.3 mBGS		
			0.15 m of water at the base of the test pit upon completion		
			one water at the base of the test pit apon completion		
TP106-18	0 - 1.83	GS1	Dark brown clayey silt, some gravel and cobbles (shale), some organics and rootlets, stiff,	547998	4931489
			dry to moist		
	1.83 - 2.13	GS2	Brown sandy gravel, some silt, trace clay, dense, moist to saturated		
	2.13 - 3.05	GS3	Shale, saturated		
			No orangics & rootlets after 0.3 mgbs		
	3.05		Test-pit terminated at 3.05 mbgs, free flowing water between 1.83 mbgs and 2.13 mbgs		
			0.25 m of water at the base of the test pit upon completion		
TP107-18	0 - 0.61		Dark brown clayey silt, trace gravel, some organics and rootlets, stiff, moist to saturated	548106	4931399
	0.61 - 2.44	GS2	Medium brown clayey silt, some sand, some gravel and cobbles, moist to saturated		
	2.44 - 3.05	GS3	Grey clay, very stiff, saturated		
	3.05		Test pit terminated at 3.05 mbgs, free flowing water at 2.44mbgs		
TD100 10	0 244	CC1	Light brown along some silt some arganics and reatlate stiff maint	F49244	4021265
TP108-18	0 - 2.44	GS1	Light brown clay, some silt, some organics and rootlets, stiff, moist	548244	4931365
	2.44 - 3.05	GS2	Grey clay and silt, dense, saturated		
	2 05		No organics & rootlets after 0.6 mbgs Test pit terminated at 2.05 mbgs, and dry upon completion		
	3.05		Test pit terminated at 3.05 mbgs, and dry upon completion		
Notes:		l	1. Metres Below Ground Surface	Ш	

Notes:

1. Metres Below Ground Surface





Romspen FC Homes Ref. No.: 7072-001

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Appendix ()
Grain Size Analyses	S





Grain Size Distribution Chart

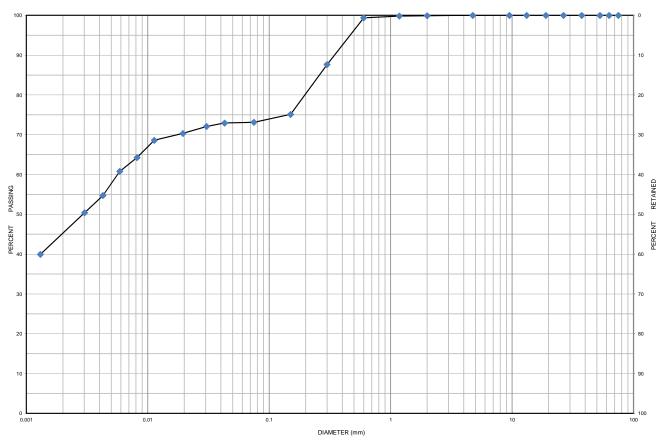
Project Number: 7072-001 **Client:** Romspen FC Homes

Project Name: Hydrogeological Assessment, Camperdown, Blue Mountains

Sample Date: January 22, 2018 Sampled By: Jonathan Macphail - Cambium Inc.

Location: TP 103-18 GS 1 **Depth:** 0 m to 0.8 m **Lab Sample No:** S-18-0059

UNIFIED SOIL CLASSIFICATION SYSTEM					
CLAY & SILT (<0.075 mm)	SAND (<4.	75 mm to 0.075 mm)	GRAVEL (>4.75 mm)		
CLAT & SILT (<0.075 IIIII)	FINE	MEDIUM	COARSE	FINE	COARSE



		MIT SOIL CL	ASSIFICATIO	N SYSTEM				
CLAV	CUT	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	BOULDERS
CLAT	CLAY SILT		SAND			GRAVEL		BOULDERS

Location	Sample No.		Depth		Gravel	;	Sand	Silt		Clay	Moisture
TP 103-18	GS 1		0 m to 0.8 m		0		27	7:	3		39.8
Description		Classification		D ₆₀		D ₃₀	D ₁₀		Cu	C _c	
Silty Sandy Clay		CL		0.006		-	-		-	-	

Issued By:	Material	Date Issued:	February 1, 2018	
	(Senior Project Manager)		-	





Grain Size Distribution Chart

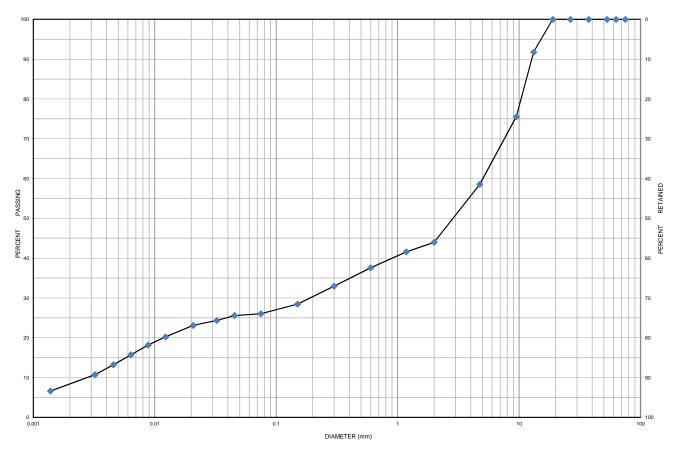
Project Number: 7072-001 **Client:** Romspen FC Homes

Project Name: Hydrogeological Assessment, Camperdown, Blue Mountains

Sample Date: January 22, 2018 Sampled By: Jonathan Macphail - Cambium Inc.

Location: TP 106-18 GS 2 **Depth:** 1.8 m to 2.1 m **Lab Sample No:** S-18-0060

UNIFIED SOIL CLASSIFICATION SYSTEM						
CLAV & CLT / O OZE	SAND (<4.	75 mm to 0.075 mm)		GRAVEL (>4.75 mm)		
CLAY & SILT (<0.075 mm)	FINE	MEDIUM	COARSE	FINE	COARSE	



	MIT SOIL CLASSIFICATION SYSTEM							
CLAY	CLAV	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	BOULDERS
CLAT	SILT		SAND			GRAVEL		BOULDERS

Location	Sample No.		Depth	Gravel	Ş	Sand	Silt	Clay	Moisture
TP 106-18	GS 2		1.8 m to 2.1 m	41		32	2	7	17.4
	Description		Classification	D ₆₀		D ₃₀	D ₁₀	Cu	C _c
Sandy Gr	avel some Silt trace Cl	ay	GW	5.200		0.190	0.0029	1793.10	2.39

ssued By:	StateBand	Date Issued:	February 1, 2018	
	(Senior Project Manager)			





Grain Size Distribution Chart

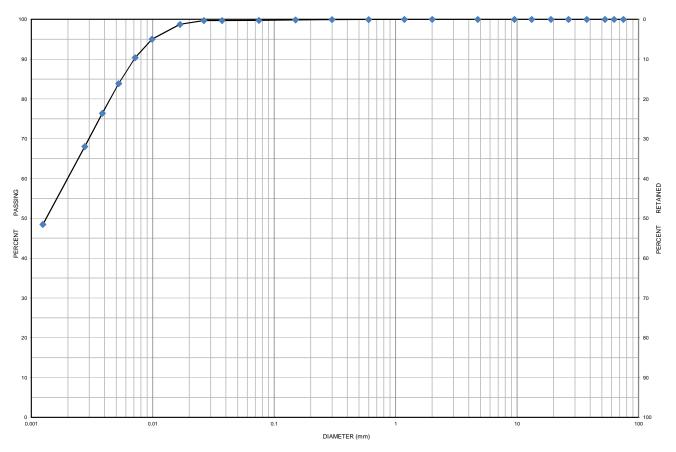
Project Number: 7072-001 Client: Romspen FC Homes

Project Name: Hydrogeological Assessment, Camperdown, Blue Mountains

Sample Date: January 22, 2018 Sampled By: Jonathan Macphail - Cambium Inc.

Location: TP 108-18 GS 2 **Depth:** 2.4 m to 3 m **Lab Sample No:** S-18-0061

UNIFIED SOIL CLASSIFICATION SYSTEM						
CLAY & SILT (<0.075 mm)	SAND (<4.	75 mm to 0.075 mm)		GRAVEL (>4.75 mm)		
	FINE	MEDIUM	COARSE	FINE	COARSE	

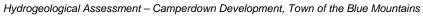


	MIT SOIL CLASSIFICATION SYSTEM							
CLAY SILT	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	BOULDERS	
CLAT	SILT		SAND			GRAVEL		BOULDERS

Location	Sample No.	Depth	Gravel	;	Sand	Silt		Clay	Moisture
TP 108-18	GS 2	2.4 m to 3 m	0		0	10	00		37.2
	Description	Classification	D ₆₀		D ₃₀	D ₁₀		Cu	C _c
	Clay and Silt	CL-ML	0.002		-	-		-	-

Issued By:	MUNCEUN M	Date Issued:	February 1, 2018	
-	(Senior Project Manager)	_		

Shot Rind





Romspen FC Homes Ref. No.: 7072-001

2018-02-15

	Ap	pendix D)
MOECC Wa	ter Well	Records	

UTM 117 514171800E

15 R 419 1311 161610 N

Etev. 15 15 19 10



GROUND WATER BRANCH

25 N 20 1959 519

ONTARIO WATER
RESOURCES COMMISSION

The Ontario Water Resources Commission Act, 1957

WATER WELL RECORD

		11	CIE COLLIN	EWOOD
= 27	Dote comple	ted /2	month	/957 year)
			• -	
	Test-pump Pumping Duration Water cle	level	end of test	C.P.M.
		Wa	ter Record	1
From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
0	7			
18	26'6"	/8	16'	7-11-
				137
Ol-juo	ro	ı diagram belov	v show distances	of well from
	From ft.	Township, Vincompletess & Static level Test-pump Pumping Duration Water clear Recommends with pumping ft.	Township, Village, Townson Completed 1/2 (day ess 6 LL 2) Pure Static level 5 Test-pumping rate Pumping level Duration of test pumping Water clear or cloudy at Recommended pumping with pumping level of the ft. To Depth(s) found 1 To the ft. To day to water(s) found 1 To the ft. To day to water(s) found 1 To the ft. To day the ft. To	Pumping level Duration of test pumping Water clear or cloudy at end of test Recommended pumping rate with pumping level of Water Record Water Record From To Depth(s) at which water(s) found No. of feet water rises A 26 6 18 10 10 10 10 10 10 10 10 10 10 10 10 10



The Ontario Water Resources Commission Act

WATER WELL RECORD

47 M/9W

Water management in Ontario 1. PRINT ONLY IN SI	PACES PROVIDED CT BOX WHERE APPLICABLE	2503696	10 14 15	22 23 6 P
COUNTY OR DISTRICT	COLLING WOOD	CON.	BLOCK, TRACT, SURVEY, ETC.	727
(3 / 5 /	That	nous On	A. DATE	COMPLETED 2 453
	3/1600 A	ELEVATION RC.	BASIN CODE II	<u> </u>
12 10 12	OG OF OVERBURDEN AND BEDRÓ	26 30	INSTRUCTIONS)	
GENERAL COLOUR COMMON MATERIAL	OTHER MATERIALS		AL DESCRIPTION	DEPTH - FEET FROM TO
2 SAND La	Pan			0 45
Soun shale	•			45 10
Srey Limestone R	ock.			10 80
				_
			OWEC	
			OWRE	
			P-9	
l activant at lan	 			
31 000402805 00				65 75 80
WATER RECORD	51 CASING & OPEN HOLE	RECORD 4 (SL	E(S) OF OPENING 31-33 OT NO.)	DIAMETER 34-38 LENGTH 39-40
WATER FOUND AT - FEET KIND OF WATER	MATERIAL THICKNESS	I U	TERIAL AND TYPE	DEPTH TO TOP 41-44 80 OF SCREEN
1 RESH 3 SULPHUR 14 2 SALTY 4 MINERAL	0-11 1 STEEL 12 2 ☐ GALVANIZED 3 ☐ CONCRETE	13-16 v) 61	DIVICEING 9 S	EALING RECORD
080 2 SALTY 4 MINERAL	06 4 □ OPEN HOLE		H SET AT - FEET MATERIA	L AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
1 FRESH 3 SULPHUR 2 SALTY 4 MINERAL	2 GALVANIZED 3 CONCRETE	0 80	10-13 , 14-17	
2 SALTY 4 MINERAL	3 CALVANIZED	27-30	18-21 22-25 26-29 30-33 80	
1 FRESH 3 SULPHUR 34 2 SALTY 4 MINERAL	3 □ CONCRETE 4 □ OPEN HOLE			
PUMPING TEST METHOD 10 PUMPING R	ATE 11-14 DURATION OF PUMPING 15-16 00 17-18 400RS MINS.		BELOW SHOW DISTANCES OF WE	
STATIC WATER LEVEL 25 LEVEL PUMPING WAT	TER LEVELS DURING 2 RECOVERY	LOT LINE. IN	IDICATE NORTH BY ARROW.	, p.
19-21 22-24 15 MINUT	070 0/0 0/0	100	10	Char.
	FEET FEET FEET FEET KE SET AT WATER AT END OF TEST 42 CLEAR 2 □ CLOUDY	3 DEO	RIAN Bay	HICHARTEN
Z IF FLOWING, 38-41 PUMP INTAN GIVE RATE GPM. RECOMMENDED PUMP TYPE RECOMMENDED PUMP PUMP PUMP	DED 43-45 RECOMMENDED 46-49 PUMPING	8	W/300	Y CRAY
Shallow DEEP SETTING (FEET RATE OOO GPM.	***************************************	0 >5	2 HEVE
FINAL 54 WATER SUPPLY 2 OBSERVATION N		WHAT	Ser .	26H
STATUS 3 TEST HOLE 4 RECHARGE WELL	7 UNFINISHED	Comp	SKIARE	MANIN
55-56 1 DOMESTIC 2 STOCK	5 COMMERCIAL 6 MUNICIPAL	MELLO	D. W.	has
WATER 3 IRRIGATION 4 INDUSTRIAL	7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED	W 1/1	SLUE	J. Chr.
57 CABLE TOOL	6 🗆 BORING	11/	1 8 hr	os de pro
METHOD 2 ROTARY (CONV	ENTIONAL) 7 🔲 DIAMOND			
DRILLING 4 ROTARY (AIR) 5 AIR PERCUSSIO	NC NC	DRILLERS REMARKS:	S CONTRACTOR EG SO DIFF	RECFIVED 63-68 8
NAME OF WELL CONTRACTOR	Sone LICENCE NUMBER 3602	DATA SOURCE / DATE OF INSPECTION	0000	130272 63-68 8
ADDRESS Stars		DATE OF INSPECTION REMARKS:	INSPECTOR	1
NAME OF DRILLER OR BORER		→ ™		
F m 1	LICENCE NUMBER	1 1 1		PLM
SIGNATURE OF CONTRACTOR	SUBMISSION DATE DAY 2 9 MO VR 22	H D REMARKS:	0S	S SS WI

(3)	Ministry of the
W	Environment

The Ontario Water Resources Act WATER WELL RECORD

Onta	ario	1. FRINT ONLY IN 2. CHECK 🗵 CORR			11	4	25086	541	MEU N	ICIP		ON.	_1_1_1_	22	23 24
COUNT	Y OR DISTRICT		TOWNSHIP.	BOROUGH, CITY				con V		FRACT. SURV	EY, ETC		E \$	LOT :	25-27
				16 6	1000							COMPLE	MO	48-53 9 yr	3%
				NG	<u> </u>	RC.	ELEVATION	RC.	BASIN	ODE	1	. i	111	iv i	
1 2	<u> </u>	10 12		18	24	25	26	30	31						
		MCST L(OG OF OVE	OTHER MAT)HOC	KWIATERIA		RAL DESC					- FEET	
GENE	RAL COLOUR	COMMON MATERIAL								4 100			FROM	10	
 	7	op soil lay some inc ston		, ,										100	,
	(Tay Source	Gravel P	1 3 + 10 m	170								50.	64	7
		11116 2 1011		2 (M. A.)											
															
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31	_ \		<u> </u>		1111		<u> </u>	1111						<u> </u>	L
41	2 10 14	RECORD	[51] C	CASING &	OPEN HO	LE R	ECORD	Z	54 ZE(S) OF OP LOT NO)	ENING	31-33	DIAMETE	ER 34-38	LENGTH	39-40
	- FEEI	IND OF WATER	INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DI FRO	EPTH - FEET	CREEN	TERIAL AN	D TYPE		L	INCHES DEPTH TO TOP OF SCREEN	41-4	FEET
6		RESH ³ [] SULPHUR ¹⁴	10-11 1	Z STEEL GALVANIZED	12	2	0- 50							FE	ET
	15-10 1 FF	RESH 3 [] SULPHUR 19	6" "	CONCRETE OPEN HOLE	188	5	0-64	61	TH SET AT -				ING REC		
	20-23 1 _ FF	RESH ³ [] SULPHUR ²⁴	2 (□ STEEL □ GALVANIZED □ CONCRETE	19		20-2	FRO		10	MATERI	AL AND	TYPE LEAD	PACKER ET	C)
-	25-28 1 _ FI	RESH 3 [] SULPHUR 29	4 (OPEN HOLE	26		27-1		18-21	22-25					
-	30-33 I 🗆 FF	RESH 3 [] SULPHUR	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	□ GALVANIZED □ CONCRETE				 	26-29	30-33	10				
	PUMPING TEST METHOD	IO PUMPING RA		OPEN HOLE	PUMPING	<u> </u>			1004	TION	OF V	WELL			
71	1 D PUMP 2 J	BAILER 6	GPN	15 H	OURS	17-18 MINS	I.N.	DIAGRAM R					FROM ROAD	AND	
_	STATIC	ATER LEVEL 25 END OF WATER PUMPING 22-24 IS MINUTE	LEVELS DURING	2 [PUMPING RECOVERY S 60 MINU	TES				NORTH BY					
TEST		26	-28 29-3	31 3		35-37				. 6.7					
PING	IF FLOWING. GIVE RATE	6 0 FEET 6 0 F		WATER AT EN		1			×	1/2tr.1	VX				
PUMPING	RECOMMENDED PUMP T	YPE RECOMMEND	ED 43-45	RECOMMENDE PUMPING	D	46-49					11		of Tu	is.	
1	SHALLOW	DEEP SETTING	<u>6 6 FEE</u>	T RATE	6	GPM				(011)	, 1 0 6	000	1.21-		
	FINAL	1 WATER SUPPLY		BANDONED, INS		PLY					3	5. Rc	1.21-	12	
	STATUS OF WELL	2 GBSERVATION W 3 TEST HOLE 4 RECHARGE WELL	7 🗌 U	BANDONED POO NEINISHED	JR QUALITY										
	55-54		5 COMM 6 MUNIC										ham		
	WATER USE	3 IRRIGATION	7 🔲 PUBLI		DITIONING							"ver"	· ·		
	57	OTHER		• D N	OT USED						1150	·/			
	METHOD	CABLE TOOL 2 ROTARY (CONVE		BORING	D										
	OF DRILLING	3 POTARY (REVER 4 HOTARY (AIR) 5 AIR PERCUSSION		• DETTING • DRIVING			DRILLERS REM	ARKS	HINA	Ц.	_#_	<u>.,</u>			v . #./
늗	NAME OF WELL COM				LICENCE NUMBER	〓	DATA		8 CONTRAC	TOR 59	-62 DATE	RECEITED	009	36 .	3-68 8
OR	S. No	Um (01/11			3813		SOURCE DATE OF I	SPECTION		INSPECTO	R				
\ACT	2.2.4	Dunden	1/2 0	., √ ,	LICENCE		M S REMARKS								
CONTRACTOR	NAME OF DRILLER				LICENCE NUMBER										
18	1 1	UVV CULL	1	DAY M	O YI	R	OFFICE						CSS.E	S	
<u> </u>	1. 4. 1/8 K	urreculary	<u> </u>										FORM NO. 0	506-4-77	FORM



The Ontario Water Resources Act

Ontai	· .	e ronment		WAT	EK V 250991	NEL MUNICIPALITY			
Orna		1. PRINT ONLY IN S 2. CHECK 🗵 CORRE	CT BOX WHERE APPLICABLE	[· · · · · · · · · · · · · · · · · · ·	23033	10	CT. SURVEY ETC	1	<u> </u>
COUNTY	OR DISTRICT		TOWNSHIP, BOROUGH CITY	sood		Co	16		26
				anne D	1 Toro	uto	DAY_	4 No 5	_{YR.} &\$
			3.1.	3.60 RC	ELEVATION CON	RC. BASIN CODE			, v
21		M 10 12	G OF OVERBURDEN	AND REDROC	K MATERIAL	S (SEE INSTRUCTION	ONS)		
<u> </u>		MOST	OTHER MA			GENERAL DESCRI		DEPTH FROM	- FEET TO
GENE	RAL COLOUR	COMMON MATERIAL						0	1
121	, ,	10001						1	6
12	1.1	Sino						6	15
R	WAN.	Shale			Han	d		15	30
61		Chale	Limestone		Hara	Ì		30_	50
7	own	Limestone						50	110
Con	19-1	Limestone						1/0	140
B	lue	Limeston						140	163
	-								
				11 1 1			1.1.1.1		<u> </u>
31	, <u>, , , , , , , , , , , , , , , , , , </u>	<u> </u>	<u>. </u>		<u> </u>				با ليا
41	10	TER RECORD	51 CASING &	OPEN HOLE F	RECORD	SIZE IST OF OPEN	ING 31-33	DIAMETER 34-38	LENGTH 39-40
WATI	ER FOUND	KIND OF WATER	INSIDE MATERIAL		DEPTH - FEET	Z (SLOT NO)	TYPE	DEPTH TO TOP OF SCREEN	FEET 41-44 30
11	· ~	FRESH 3 SULPHUR SALTY 4 MATERALS 6 AS	10-11 1 DETEEL 2 GALVANIZED	12	13-16	Š			FEET
1/6	15-18 1	FRESH 3 SULPHUR 19	3 CONCRETE 4 OPEN HOLE 5 PLASTIC	.188 +1		61 P		SEALING REC	ORD
-	20-23 1	FRESH 3 SULPHUR 24	17-18 1 STEEL 2 GALVANIZED 3 GONGRETE	19	20-23		10 MATER!		PACKER, ETC.)
-	25-28 1	SALTY 6 GAS FRESH 3 SULPHUR 29 MINERALS	3 GONCRETE 4 DOPEN HOLE 5 DPLASTIC	26	27-30	18-21	22-25		
-		□ SALTY 6 □ GAS □ FRESH 3 □ SULPHUR 34 4 □ MINERALS	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE			26-29	30-33 80		
		SALTY 6 GAS	5 PLASTIC	PUMPING		1000	TION OF V	VELL	
71	PUMPING TEST M	ETHOD 10 PUMPING RA		1748 HOURS MINS	111 011	AGRAM BELOW SHOW			AND
	STATIC LEVEL	PUMPING	LEVELS DURING 2	PUMPING RECOVERY	LOT L	INE INDICATE N	ORTH BY ARROW		8
TEST	19-2	26	-26 29-31	32-34 35-37				3	
NG.	FE IF FLOWING. GIVE RATE	FEET SA-41 PUMP INTAK	1	ND OF TEST 42					6
PUMPING	RECOMMENDED		FEET	AR 2 CLOUDY ED 46-49		11.	ter		> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
٦	SHALLO	DEEP PUMP SETTING	FEET RATE	GPM [*]		rjw,	1100	M 6	7
		54 WATER SUPPLY	abandoned. In	SUFFICIENT SUPPLY		١.	,		
	FINAL STATUS	2 OBSERVATION W	7 UNFINISHED	OOR QUALITY		TV	225	,	1
-	OF WELL	SS-56 I DOMESTIC	DEWATERING COMMERCIAL			V	11 6	at26	
	WATER	2 STOCK 3 RRIGATION		ANDITIONING			14		
	USE	4 INDUSTRIAL OTHER		NOT USED			7		
	METHOD	CABLE TOOL ROTARY (CONV	\$ ☐ BORIN ENTIONAL) 7 ☐ DIAMO		and making and a same	T 1/			
lc ₀	OF	ROTARY (REVE	RSE) B JETTIA	1G 1G		ake Hun	9 7 \	5	5826
Ĺ		S AIR PERCUSSIO	, lw	NG OTHER	DRILLERS REMAI	SE CONTRACTO	59-62 DATE	RECEIVED	63-68 80
α	1 / /	land Water	wells !	2576	SOURCE	25	76	MAY 1 6 19	389
[5]	ADDRESS	141 Duch.	3 <i>u</i> 1		SE	ELTION	INSTECTOR		
ONTRACTOR	NAME OF W	VELL TECHNICIAN	V	VELL TECHNICIAN'S	O REMARKS				
Š	SIGNATURE	OF TECHNICAN/CONTRACTO	R SUBMISSION DAT	· (89	OFFICE			CSS S8	
	ICA	Ksm	DAY 4	мо yr. <u>© /</u>				FORM NO. 050	6 (11/86) FORM !



The Ontario Water Resources Act WATER WELL RECORD

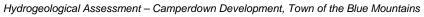
Ontario	1. PRINT ONLY IN S	SPACES PROVIDED ECT BOX WHERE APPLICABLE	11	25110	187	25003	ِدِّ ٥ الا ان	1196	
COUNTY OR DISTRIC		TOWNSHIP, BOROUGH CIT	1		CON	BLOCK, TRACT, SURVEY	etc PL	36	
			1116 WOOR	4)			DATE COMPLETED DAY 23 MO 1	0 YR 90	
		, c 2 1	<u> </u>	ELEVATION SECOND	RC.	BASIN CODE	11 11 111		
1 2	M 10 12	OG OF OVERBURDEN	N AND REDRO	26	30	INSTRUCTIONS)		47	
CENERAL COLOU	MOST	OTHER MA		JOK MIATEM		RAL DESCRIPTION	DEP FROM	TH - FEET	
GENERAL COLOU	COMMON MATERIAL				- C		Ь	a	
				3	and	Brown	3	19	
				G	us C	144	19	_31	
				6	us C	lau STON	es 31	33	
				B	100	L. neslone	33		
	•			<u> </u>	ساد	Limestane	الحاط	8.3	
31	سا لىلىلىلى				لبل				
32	14 15	51 CASING 8	OPEN HOLE	RECORD.	Size	54 EIST OF OPENING 3	65 11-33 DIAMETER 34-3	75 80 18 LENGTH 39-40	
WATER FOUND AT - FEET	KIND OF WATER	INSIDE MATERIAL	WALL THICKNESS	DEPTH - FEET		TERIAL AND TYPE	INCHE DEPTH TO T		
<u> </u>	FRESH 3 SULPHUR 14 4 MINERALS 6 GAS	10-11 1 DSTEEL 2 DGALVANIZED	INCHES 1		SC S		OF SCREEN	FEET	
15-18	19	3 CONCRETE 4 OPEN HOLE 5 PLASTIC	.128+		CEMENT GROUT				
20-23	FRESH 3 SULPHUR 24	17-18 1 □ STEEL 2 □ GALVANIZED 3 □ CONCRETE	19	33 83	FROM	# M	ATERIAL AND TYPE LE	AD PACKER. ETC)	
25-28	FRESH 3 SULPHUR 29	4 SOPEN HOLE 5 PLASTIC	26] [18-21 22-25			
30-33	1 Gresh 3 SULPHUR 34	2 GALVANIZED 3 CONCRETE 4 OPEN HOLE				26-29 30-33 80			
PUMPING TEST	2 SALTY 6 GAS METHOD 10 PUMPING RA	5 PLASTIC	F PUMPING	DI.		LOCATION O	F WELL		
	WATER LEVEL 25) GPM1	15-16 30 17-18 HOURS	IN		ELOW SHOW DISTANCES	OF WELL FROM ROA	AD AND	
STATIC	END OF WATER PUMPING P	A DO MINUTES 1 AS MINUT		-	OT LINE II	_	ROW.		
30'	FEET 83 FEET 83		7 FEET 63			INT			
IF FLOWING. GIVE RATE RECOMMENDE	SE-41 PUMP INTAK	FEET 1 X CLE	EAR & CLOUDY]		1			
RECOMMENDE	PUMP	78 FEET RATE	6 3 GPM	11	1	I was			
50-53				<u> </u>		4 KM			
FINAL STATU	I # II ORSERVATION W	\$ ABANDONED, IN VELL 6 ABANDONED PO 7 UNFINISHED				1	CT		
OF WEI	LL 4 RECHARGE WELL	L DEWATERING		-{		200	<i>9</i>	a.	
WATE	2 D STOCK	5 COMMERCIAL 6 MUNICIPAL 7 DUBLIC SUPPLY		6	n#6	٠ است			
USE	4 INDUSTRIAL OTHER	COOLING OR AIR CO	ONDITIONING NOT USED		١				
METHO	57 1 CABLE TOOL DD 2 ROTARY (CONVE	6 ☐ BORIN ENTIONAL) 7 ☐ DIAMO			ļ			78	
OF	3 ROTARY (REVER	RSE) B JETTIN 9 DRIVIN	iG iG		ı			75979	
	5 AIR PERCUSSION		NG OTHER	DRILLERS RI	MARKS 58	CONTRACTOR 59-62	DATE RECEIVED	63-68 80	
	GIAN BUY Well		6423	SOURCE	INSPECTION	6433	DEC 04	1990	
ADDRESS	, 24 Meaton] SE						
	NAME OF WELL TECHNICIAN TON TRANST			ICIAN'S MBER U U					
SIGNATUR	E OF TECHNICUM/CONTRACTOR		E	OFFICE		t ,	SS S8		
MINIST	RY OF THE ENVIRO						FORM NO. 0	9506 (11/86) FORM 9	

0506 (07/94) Front Form 9



County or District		Township/Borough/City/	Town/Village	Con block tract sur	
,		Address	inchood	7 J Date	P+ 64 25
		Canpondou	DN Rd. Co	Completed completed	day month yea
21	τ	Northing	RC / Elevat	ion RC Basin Code ii	
		OF OVERBURDEN AND BED	ROCK MATERIALS (S	see instructions) General description	Depth – feet
General colour	Most common material	Other materials	B		From To
		£.	LINOW	n clas shaves	aa 40
			BL	u Shale	40 80
		,			
31					
32			<u> </u>		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Motor found	RECORD 51 Inside	CASING & OPEN HOL	E RECORD Depth - feet	Sizes of opening 31-33 Diame (Slot No.)	
at - feet	Gind of water diam inches	Material thickness inches	From To 13 · 16	Material and type	Depth at top of screen
59 2 □ Sa	lty 6 Gas sh 3 GSulphur 19	Galvanized Concrete Open hole	+4 44	σ	feet
2 □ Sa	ty 6 Gas	5 Plastic	20-23	61 PLUGGING & SEA	LING RECORD Abandonment
20-23 1 Fre	ty 6 Gas S	Galvanized Concrete Open hole	40 80	Depth set at – feet From To Material and type	(Cement grout, bentonite, etc
²⁵⁻²⁸ 1 ☐ Fre ₂ ☐ Sa	sh 3 📙 Sulphur 29	Plastic Steel 26 Galvanized	27-30	10-13 14-17 HOLE 1	
30-33 1 Fre	sh 3 Sulphur 34 60 4 Minerals hty 6 Gas	3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	,en	18 21 22-25 CONCR 26-29 30-33 63	6/6.
Pumping test metho		14 Duration of pumping		LOCATION OF WELL	
71 Pump 2 B	ailer /7 CP	M		below show distances of well from	
19-21 end of	pumping 22-24 15 minutes 30 minutes		Indicate not	TITI BY ATTOW.	•
5 feet	feet feet fe	eet feet feet water at end of test 42		HWY#26- 1N	
If flowing give rate Recommended pum		eet Cloudy Clear Cloudy Recommended 46-49	RD.		
Recommended pum	pump setting	pump rate 12 GPM			
FINAL STATUS O	F WELL 54]		
Water supply □ Observation w □ Test hole	5 🗌 Abandoned, insufficie				
4 Recharge well					
WATER USE Domestic	55-56 5 ☐ Commercial 6 ☐ Municipal	9 🔲 Not used	#		. .
2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial	 Municipal Public supply Cooling & air condition 	10 Other	conty	10 75 5	LOT 25
METHOD OF CON]	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Cable tool 2 Rotary (conve	5 Air percussion ntional) 6 Boring e) 7 Diamond	9 Driving 10 Digging 11 Other		U	00000
₄ ☐ Rotary (air)	8 Jetting			1	6203 9
Name of Well Contractor	Day Well Dullin	Well Contractor's Licence No.	Data source		received 6 1997
Address // A	4 . 1		Date of inspection	Inspector	<u>LO 10 1031 </u>
Name of Well Technician	1	Well Technician's Licence No.	Date of inspection Remarks		M
Signature of Technician/	Hodbik INSON	T 12 57 Submission Mate	I I I	CSS.5	
Heory	Todolerson.	Submission sete	₹	C33.3	20

2 - MINISTRY OF ENVIRONMENT & ENERGY COPY





Romspen FC Homes Ref. No.: 7072-001

2018-02-15