

Project No. 131-15683-00

May 31, 2013

Mr. Bruno Giordano Vicdom Sand & Gravel (Ontario) Ltd. P.O. Box 1359 Uxbridge, Ontario L9P 1N6

Re: Groundwater Water Table Elevation

Proposed Utica Pit – Utica

Dear Sirs:

We are pleased to submit this letter to provide the anticipated high water table elevation for the groundwater table at the proposed Utica Pit. A Site Plan for the property located at 3900 Lake Ridge Road is presented in Figure 1.

A. Summary of Wells

On April 24, 2013, two wells were located on the property. One well designated as DW-1 is used for domestic consumption and is located approximately 4.9 metres (m) west of the northwest corner of the house. The well casing is six inches in diameter, which is indicative of a drilled well. A Ministry of the Environment (MOE) water well record identifies the well as #4605678 per the attached summary. Based on the summary the well is 42.7 m deep and encountered the following soil units

SOIL TYPE	DEPTH (m bgs)
Brown Clay	0 – 1.5
Brown to Yellow Gravel and Sand	1.5 – 29.0
Yellow to Blue Clay	29.0 – 39.6
Brown Sand	39.6 - 42.7 (Base of Well)

NOTES: 1) 'm bgs' indicates metres below ground surface

Water was detected during drilling in December 1973 at a depth of about 29 m below ground surface (mbgs) and a well screen was installed from 41.4 m to 42.7 m bgs.

The second well designated as MW13-1 was installed on the northern edge of the property about 120 m west of the paved portion of Lake Ridge Road. An MOE water well record identifies the well as #7187320 per the attached summary. The summary corresponds to Well Tag No.

A006365, which is detailed in the attached well record. Based on the well record the well is 40 m deep and encountered the following soil units.

SOIL TYPE	DEPTH (m bgs)
Sand and Gravel	0 - 40 (Base of Well)

NOTES: 1) 'm bgs' indicates metres below ground surface

The well screen was installed from 37 m to 40 m bgs.

B. Water Table Elevation

The elevations of the two wells were surveyed to a datum located at the base of the second hydro pole west of Lake Ridge Road along the northern property boundary. Based on elevation contours provided by Skelton Brumwell & Associates, the elevation of the base of the hydro pole is about 346 m asl.

The groundwater depth and elevation for each well is provided below. It is noted that the water level likely represents the high water table level as the level was measured during the spring on April 24, 2013, shortly after the spring snowmelt and a period of precipitation.

WELL DESIGNATION	TOP OF CASING (m asl)	DEPTH TO WATER TABLE (mbgs)	WATER TABLE ELEVATION (m asi)
DW-1	346.48	25.41	321.07
MW13-1	347.21	25.49	321.72

NOTES: 1) 'm asi' indicates metres above sea level

2) 'm bgs' indicates metres below ground surface

It is noted that the depth to water table will vary across the property owing to differences in the elevation of the water table and of ground surface. Based on a maximum water table elevation of 321.72 m asl and a 1.5 m separation between the high water table and the base on an above water table pit, the base of the pit could be located at an elevation of about 323.22 m asl.

We trust that this letter provides sufficient information for your requirements. If you have any questions, please call us.

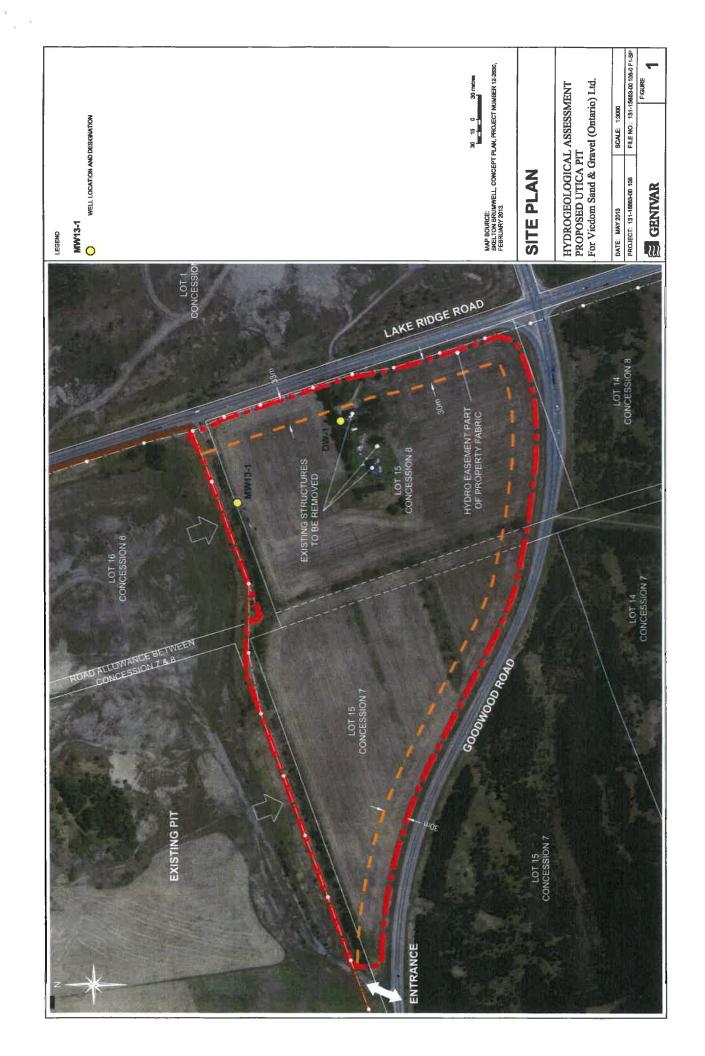
Yours truly, GENIVAR Inc.

Jason T. Balsdon, M.A.Sc., P.Eng.

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Director, Environment

JTB:nah



Well ID Number: 4605678

Well Audit Number: none Well Tag Number: none

This table contains information from the original well record and any subsequent updates.

Well Locat	lon						
Address of Well	Location	Towns	ship		Lot	Concession	
not available	e	Uxbr	idge Townsh	ip (Uxbridge)	015	CON 08	
County/District/	Municipality	City/T	own/Village		Province	Postal Code	
DURHAM					ON	n/a	
UTM Coordinate	s	Munic	ripal Plan and Sub	blot Number	Other		
NAD83 — Zone	17						
Easting: 654514	1.9						
Northing: 4880	573						
Overburde	n and Bedrock	Materials	Interval				
General Colour	Most Common Mate	rial Other Mate	ri als General De	escription	Dept	h	
					From		
BRWN	CLAY	STNS			0 ft		
BRWN	GRVL				5 ft		
YLLW	GRVL	BLDR			43 f		
YLLW	GRVL				55 f		
BRWN	SAND				63 f		
YLLW	CLAY				95 f		
BLUE	CLAY				120		
BRWN	SAND				130	ft 140 ft	
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Depth	Type of Sealant		Volume			Draw Do	wn Recovery
From To	(Material and T)	rpe)	Placed	After test of well	l yield, wate	er Time Wa	ater Time Water
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Audit Number: none

Date Well Completed: December 12, 1973 **Date Well Record Received by MOE:** January

04, 1974

Well ID Number: 7187320

Well Audit Number: Z107919 Well Tag Number: A006365

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location not available County/District/Municipality

Township

Concession

Uxbridge Township (Uxbridge) 015 City/Town/Village Province

CON 08 Postal Code

n/a

ON

UTM Coordinates

DURHAM

Municipal Plan and Sublot Number

Other

NAD83 - Zone 17 Easting: 654430

Northing: 4880627

Overburden and Bedrock Materials Interval

General Colour Most Common Material Other Materials General Description

Depth From

To

Annular Space/Abandonment Sealing Record Results of Well Yield Testing

Depth		Type of Sealant	Used	Volume		Draw Down	Recovery
From	То	(Material and Ty	,	Placed	After test of well yield, water was	Time Water (min) level	Time Water (min) level
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					Pumping Rate	4	
		Record - Ca			Duration of Pumping	5	
Inside Diameter	Open F	lole OR material	terial Depth From	Το		10	
Diameter				10	Final water level	15	
					If flowing give rate	20	
Constr	uction I	Record - Sci	een			25	
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Diameter		From	From	То		30	
					Recommended pump rate	40	
Well C	ontracto	or and Well	Technician	1	Well Production	45	
Inform	ation					50	
Well Cont	ractor's Lice	ence Number		1508	Disinfected?	60	

Water Details

Hole Diameter

Water Found at Depth Kind

Depth Diameter

From To

Audit Number: Z107919

Date Well Completed: August 12, 2012

Date Well Record Received by MOE: September

19, 2012

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