



October 30, 2020

970 Maplevue Construction Inc.
c/o S.C. Land Management
Attention: Mr. Sal Crimi

Via Electronic Mail:
scland@rogers.com

Re: **Supplemental Geotechnical Review**
932 Maplevue Drive East – Maplevue Park Development
City of Barrie, Ontario
EXP Reference: BRM-00609046-A0

Dear Mr. Crimi:

EXP Services Inc. (EXP) was requested to provide a geotechnical review of the holdout property located at 932 Maplevue Drive East, Barrie Ontario. It is EXP's understanding that the subject property was recently consolidated into the overall Maplevue Park development plan. The property is bounded by the Maplevue Park development on the north and east, Maplevue Drive East on the south and a parkette on Succession Crescent on the west. A site plan is attached with this letter for reference.

As part of our analysis, EXP reviewed Golder Associates. geotechnical report¹ for the site. Two (2) pertinent boreholes are located in close proximity to the subject property (Boreholes 16-23 and 16-28). Additionally, a hydrogeological report² prepared by R J Burnside & Associates Limited was also reviewed, specifically Borehole MW3. Based on the borehole information, the soil in all three boreholes consists of a brown to grey sand/silt/clay mixture with a variable gravel content (till). Borehole location plan and borehole logs are attached with this letter.

In general, the soil and groundwater conditions are relatively consistent in this area of the site. Based on our review, the comments and recommendations outlined in the geotechnical Report¹, are applicable for the property at 932 Maplevue Drive East.

It should be noted that all existing underground infrastructure on the subject property (i.e. foundations, storage tanks, wells, unsuitable fill material, etc.) should be adequately removed. EXP should be present to monitor removal operations to confirm suitable subgrade soils are present prior to earthwork operations.

¹ Preliminary Geotechnical Investigation, LM Bluesky, Proposed Residential Development, Barrie, Ontario, Prepared by Golder Associates Ltd, Reference No. 1661309, dated December 2016.

² Hydrogeological Study in Support of Draft Plan, 970 Maplevue Construction Inc., Barrie, Ontario, Prepared by R J Burnside & Associates Limited, Reference Number 300043141.0001, dated November 2019.

We trust the above information is sufficient for your requirements. If you have any questions or wish to discuss in further detail, please do not hesitate to contact this office.

Sincerely,

EXP Services Inc.



Leigh Knecht, P. Eng.
Manager, Earth & Environmental
Barrie Office



Christopher Rebong, P. Eng.
Project Manager
Earth & Environment

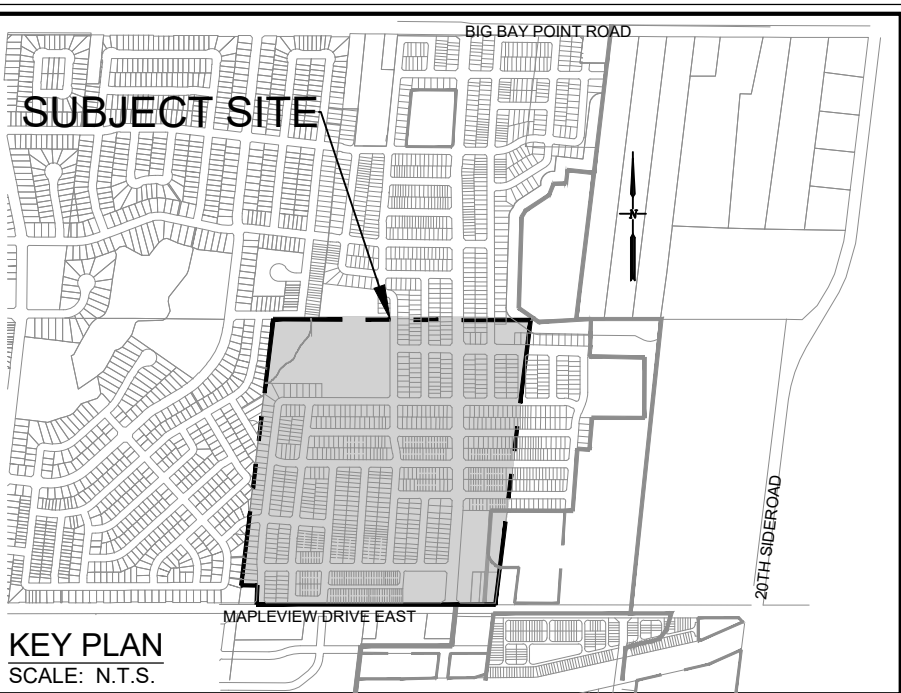
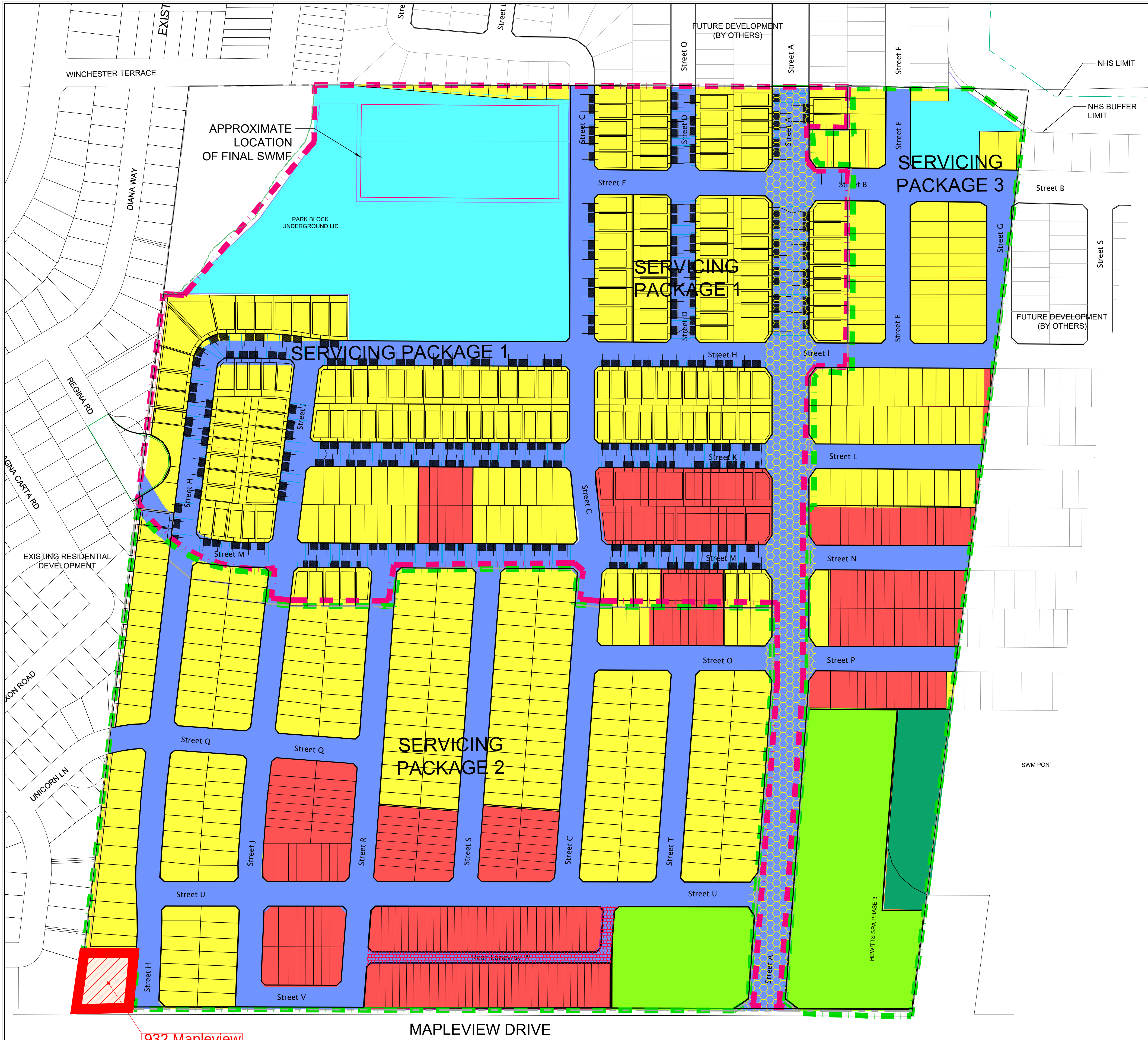
Enclosure(s):

- (a) General Site Plan
- (b) Borehole Location Plan (from Golder Geotechnical Report)
- (c) Borehole, Well and Cross-Section Location Plan (from RJ Burnside Hydrogeological Report)
- (d) Borehole Logs: BH's 16-23 and 16-28 (from Golder Geotechnical Report) and BH MW3 (from RJ Burnside Hydrogeological Report)

Distribution:
Mr. Sal Crimi

SC Land Developements

scland@rogers.com



LEGEND

- TOWNHOUSE LOTS - 1.10
- SINGLE LOTS - 0.90
- MULTI-USE - 1.10
- ROADS - 0.60
- ROADS - 0.55
- ROADS - 0.70
- PARK - 0.40
- OTHER - 0.30

NOTE:
1) REFER TO LANDSCAPE ARCHITECT PLANS FOR TREE PRESERVATION AND SIGNAGE DETAILS.
2) EXISTING NATURAL DRAINAGE FEATURES TO BE PROVIDED WITH STRAW BALE CHECK DAMS, PER OPSD 219.180. ADDITIONAL STRAW BALE DAMS TO BE PLACED AS DIRECTED BY SITE ENGINEER OR CITY STAFF WHERE REQUIRED.

SURVEY NOTES:
1. ORIGINAL TOPOGRAPHIC SURVEY AND CADD INFORMATION PROVIDED BY JOE TOPO SURVEYS AND CADD INC.
2. LEGAL INFORMATION AND BOUNDARIES SHOWN ARE PER DRAWINGS PROVIDED BY RUDY MAK SURVEYING LTD.
3. ELEVATIONS SHOWN HEREON ARE GEODETIC BASED ON NAD83 (CSRS) AND ARE DERIVED FROM GPS REAL TIME NETWORK OBSERVATIONS USING THE 'CAN-NET' VRS NETWORK, IN UTM 17N.

CITY OF BARRIE HORIZONTAL & VERTICAL CONTROL MONUMENTS:
• MONUMENT 03120110023, N:4913681.112, E:611567.363, ELEV. = 266.152
• MONUMENT 03120110022, N:4913344.416, E:612404.419, ELEV. = 266.869
• MONUMENT 03120110021, N:4913007.154, E:612345.373, ELEV. = 268.048
• MONUMENT 03120110019, N:4912407.124, E:612084.750, ELEV. = 258.472

LOCAL BENCHMARKS:
• TOP NUT OF HYDRANT AT THE NORTH WEST CORNER OF VERSAILLES CRESCENT AND SOVEREIGN'S GATE, ELEV. = 262.54
• TOP NUT OF HYDRANT AT SITE PROPERTY LINE WITH UNICORN LANE, ELEV. = 263.03
• TOP NUT OF HYDRANT AT THE SOUTH WEST CORNER OF THE PROPERTY, ADJACENT TO MAPLEVIEW DRIVE, ELEV. = 260.25

Notes:
1. This drawing is the exclusive property of R. J. Burnside & Associates Limited. The reproduction of any part without prior written consent of this office is strictly prohibited.
2. The contractor shall verify all dimensions, levels, and datums on site and report any discrepancies or omissions to this office prior to construction.
3. This drawing is to be read and understood in conjunction with all other plans and documents applicable to this project.

ISSUED FOR CONSTRUCTION

No.	Issue / Revision	Date	Auth.
1	SITE ALTERATION APPLICATION	19/08/07	JO
2	ISSUED FOR TENDER	19/08/20	JO
3	ISSUED FOR SECOND SUBMISSION	19/08/30	JO

CITY OF BARRIE
ACCEPTED

DATE:

DIRECTOR OF ENGINEERING

Barrie
ENGINEERING DEPARTMENT

BURNSIDE

R.J. Burnside & Associates Limited
128 Wellington St. W., Suite 301
Barrie, Ontario, L4N 6J6
telephone (705) 797-2047
fax (705) 797-2037
web www.rjburnside.com

Client:
970 MAPLEVIEW INC.
2200 HIGHWAY 7 WEST
CONCORD, ONTARIO
L4K 1W7

Drawing Title: 970 MAPLEVIEW				Drawing No. C003
PRE-GRADE DEPTH PLAN				
Drawn SM/AD	Checked AP/BH	Designed AP/BH	Checked AP	Date 19/01/31
Project No. 300039296.2019	Contract No. D12-429	Revision No. 0	Revision No. 0	
Scale 1:1,500	0 30 60 90m			

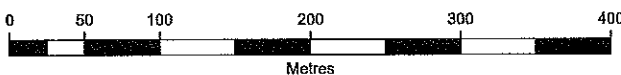
0 25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- SUBJECT LANDS
- MONITORING WELL (RJB, 2014)
- MONITORING WELL (GOLDER, 2016)
- MONITORING WELL (CAMBIUM, 2018)
- MONITORING WELL (SOURCE UNKNOWN)
- BOREHOLE (GOLDER, 2016)
- BOREHOLE (CAMBIUM, 2018)
- MECP WELL RECORD LOCATION
- CROSS-SECTION LOCATION KEY

A A'



Client / Report

970 MAPLEVIEW CONSTRUCTION INC.
BARRIE, ONTARIO

HYDROGEOLOGICAL STUDY

Figure Title

BOREHOLE, WELL AND CROSS-SECTION LOCATION PLAN

Drawn SK	Checked SC	Date November 2019	Figure No.
Scale 1:5,000	Project No. 300043141.0001		5

PROJECT: 1661309
LOCATION: N 4912346.27; E 611272.19

RECORD OF BOREHOLE: BH16-23

BORING DATE: October 5, 2016

SHEET 1 OF 1
DATUM: Geodetic

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE			SAMPLES			DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m												
								SHEAR STRENGTH Cu, kPa		nat V. + rem V. ⊕		Q - ● U - ○		WATER CONTENT PERCENT					
														Wp ———— W ———— WI					
								20	40	60	80								
0		GROUND SURFACE		261.72															
		TOPSOIL		0.00															
				261.26	1	DO	4												
		(SP) SAND, trace silt; orange brown; non-cohesive, dry to moist, very loose		0.46															
		(SC) CLAYEY SAND, trace to some gravel; grey, (TILL); cohesive, w~PL, stiff to hard		0.61															
					2	DO	14												
1																			
					3	DO	22												
2																			
					4	DO	36												
3																			
					5	DO	56												
4																			
					6	DO	45												
5																			
					7	DO	53												
6																			
7		End of Borehole		255.17															
		NOTE:		6.55															
		1. Borehole dry upon completion of drilling October 5, 2016.																	
8																			
9																			
10																			

DEPTH SCALE
1 : 50



LOGGED: DF
CHECKED: NL

LOCATION: N 4912259.14; E 611384.84

BORING DATE: October 5, 2016

DATUM: Geodetic



**Golder
Associates**

LOGGED: DF
CHECKED: NL

LOG OF DRILLING OPERATIONS

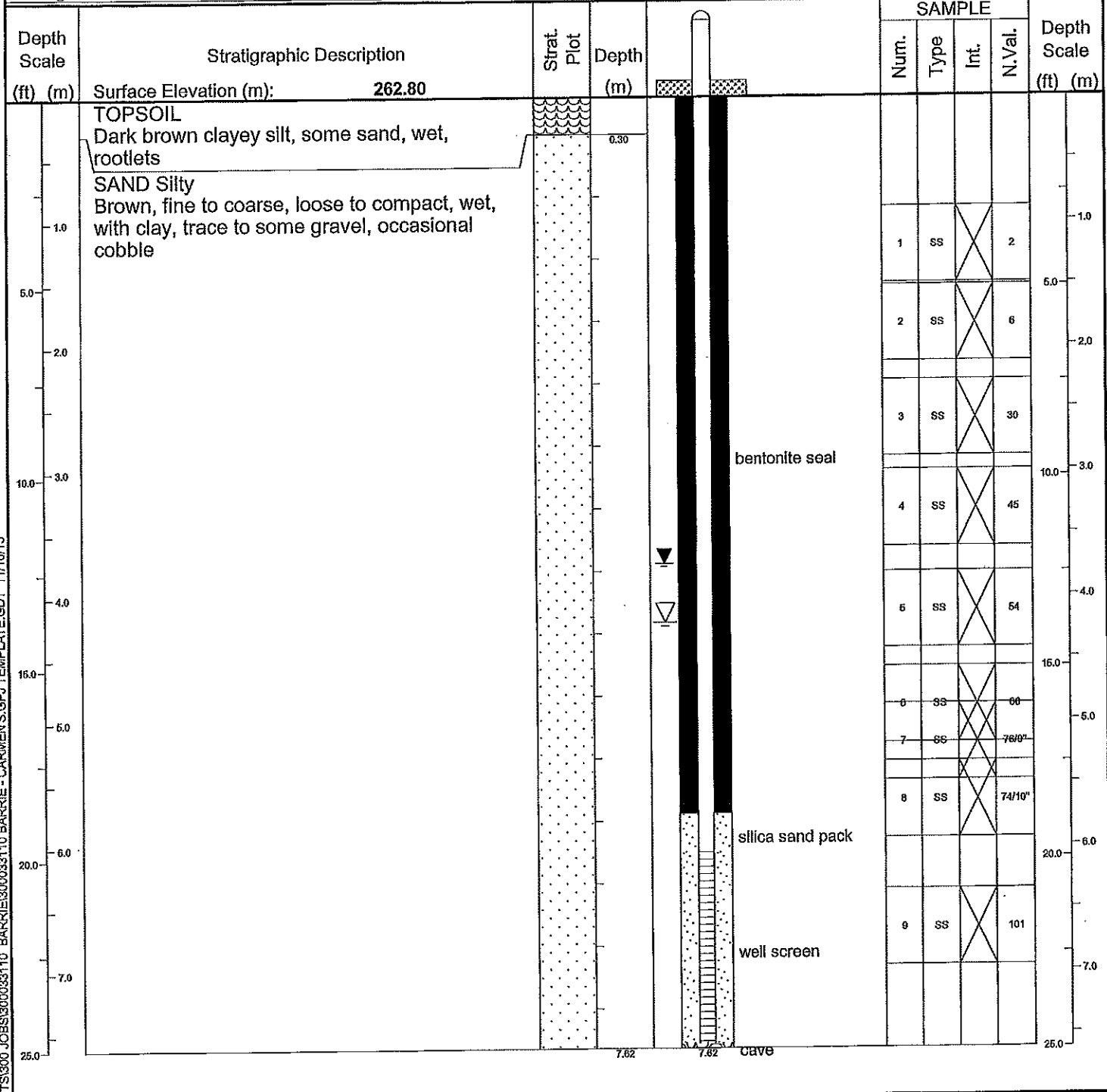
MW3



R.J. Burnside & Associates Limited
292 Speedvale Avenue West, Guelph, Ontario N1H 1C4
telephone (519) 823-4995 fax (519) 836-5477

Page 1 of 1

Client: Hewitt's Creek Landowners Group	Project Name: Hewitt's Secondary Plan Area	Logged by: C. Dinulescu
Project No.: 300033110	Location: Barrie, ON	Ground (m amsl): 262.80
Drilling Co.: Lantech Drilling Services Inc.	Date Started: 4/7/2014	Static Water Level Depth (m): 4.21
Drilling Method: Hollow Stem Auger	Date Completed: 4/7/2014	Sand Pack Depth (m): 5.74 - 7.58



B:\LOG GUELPH P:\GINT\PROJECTS\300033110 BARRIE - CARVENS.GPJ TEMPLATE.GDT 11/10/15

Prepared By: C. Dinulescu	Checked By: D. Smikle	Date Prepared: 7/14/2014
This borehole log was prepared for hydrogeological and/or environmental purposes and does not necessarily contain information suitable for a geotechnical assessment of the subsurface conditions. Borehole data requires interpretation by R. J. Burnside & Associates Limited personnel before use by others.		
LEGEND	MONITORING WELL DATA	SAMPLE TYPE
Water found @ time of drilling Static Water Level - 6/9/2014	Pipe: 51 mm dia. PVC Screen: 51 mm dia. PVC #10 slot	AC Auger Cutting CS Continuous RC Rock Core SS Split Spoon AR Air Rotary WC Wash Cuttings