



Soil Engineers Ltd.

CONSULTING ENGINEERS

GEOTECHNICAL • ENVIRONMENTAL • HYDROGEOLOGICAL • BUILDING SCIENCE

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April 19, 2022

Reference No. 2204-S056

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Bolton North Hill Landowners Group
c/o PGC Land Management Ltd.
8800 Dufferin Street, Suite 200
Vaughan, ON
L4K 0C5

Attention: Mr. Peter Campbell

**Re: Secondary Plan Level Geological Review for
Proposed Residential Development
Bolton North Hill
Town of Caledon**

Dear Sir,

As requested, Soil Engineers Ltd. was retained to review the following provided information and provide our comments for the design and construction of the captioned project:

- *“Monitoring Well Layout”, by Crozier Consulting Engineers (Crozier). dated November 11, 2021,*
- *“Monitoring Well Logs for MW1-21 to MW20-21”, by Crozier dated November 1 to 11, 2021,*
- *“Monitoring Well Levels – Bolton North Hill”, by Crozier dated February 24, 2022.*

SITE DESCRIPTION

The captioned project includes the following land parcels:

- 14289, 14337, 14475, 14684, 14685, 14700, 14766, 14776, and 14800 Highway 50
- Northwest of Emil Kolb Parkway and Highway 50
- 14601 and 14691 Duffy’s Lane
- Northeast of Mount Hope Road and Columbia Way

The parcels are generally vacant fields with multiple residential dwellings and farm structures at various locations. It is understood that the proposed development will consist of new residential subdivisions serviced with municipal roadways and services meeting town standards.



SUBSURFACE CONDITIONS

A total of twenty (20) boreholes were supervised by Crozier Consulting Engineers between November 1 and 11, 2021. The boreholes were terminated at 6.1 m below prevailing ground surface and monitoring wells were installed in each of the borehole to the termination depth. The locations of the boreholes and monitoring wells were illustrated on the Monitoring Well Layout, Figure 3, enclosed.

The bore logs, MW1-21 to MW20-21, revealed that beneath a veneer of topsoil of variable thickness, the site is generally underlain by a stratum of silty clay interbedded with a layer of silty sand, silt or sandy silt. A localized layer of clayey silt till was also identified in MW1-21 and MW2-21. Details of the soil stratigraphy are illustrated in the enclosed bore logs.

Stabilized groundwater level was recorded for all monitoring wells on February 8 and 24, 2022 by Crozier. The groundwater level was recorded at depths ranging from 1.06 to 3.33 m below the prevailing ground surface, or between El. 258.6 m and El. 269.7 m.

COMMENTS

Based on the field record of the borehole investigation, Soil Engineers Ltd. herein provides the following comments for the proposed residential development:

- Topsoil must be stripped prior to the development. It can only be re-used for landscaping purpose. Any surplus should be removed off site.
- Where additional fill is required for site grading, it is economical to place and compact the earth fill in an engineered manner to support the houses, pavement and underground services. Prior to the placement of engineered fill, the subgrade must be inspected and proof-rolled. Any soft/weak soil identified must be subexcavated and replaced with compacted inorganic soil.
- For conventional design, the basement or lowest floor level of the dwelling must be maintained at least 1.0 m above the highest recorded groundwater level and the underground structure must be provided with perimeter subdrains, connected to positive outlet.
- Where the basement or lowest floor level are constructed less than 1.0 m, but more than 0.5 m above the highest recorded groundwater level, underfloor subdrain should be provided. In addition, a vapor barrier must also be provided between the concrete slab and the granular bedding to prevent upfiltration of moisture/vapor.
- Should the basement or lowest floor level are constructed less than 0.5 m above the highest recorded groundwater level or submerged, the underground structure should be water-proofed and properly designed to resist the hydrostatic uplift pressure with a raft foundation.



- Due to the lack of geotechnical data, design bearing pressure for the proposed building cannot be provided. A comprehensive geotechnical investigation must be performed to properly evaluate the strength of the subsoil.
- Typically, Class 'B' pipe bedding, consisting of 19-mm Crusher-Run Limestone, can be used for underground services construction. Where soft/weak soil is encountered at the subgrade level, it must be subexcavated and properly backfilled and compacted with inorganic soil to 98% Standard Proctor Dry Density (SPDD). Where the subgrade is wet or where dewatering is required for the underground service construction, Class 'A' concrete bedding can be used instead.
- Excavation should be carried out in accordance with O. Reg. 213/91.

It should be noted that the above comments or recommendations are preliminary in nature. Further investigation with geotechnical boreholes must be performed in order to provide relevant or site-specific geotechnical recommendations for the design and construction of the captioned project.

We trust this letter satisfies your current requirement. Should you have any query, please feel free to contact our office.

Yours truly,
SOIL ENGINEERS LTD.

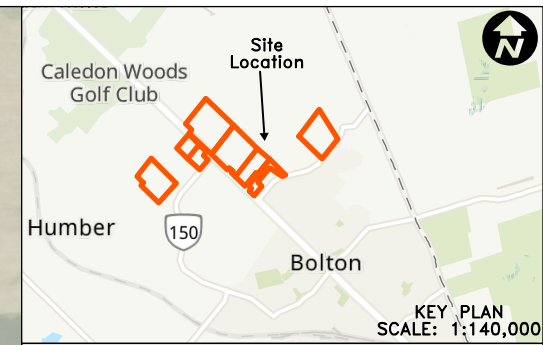
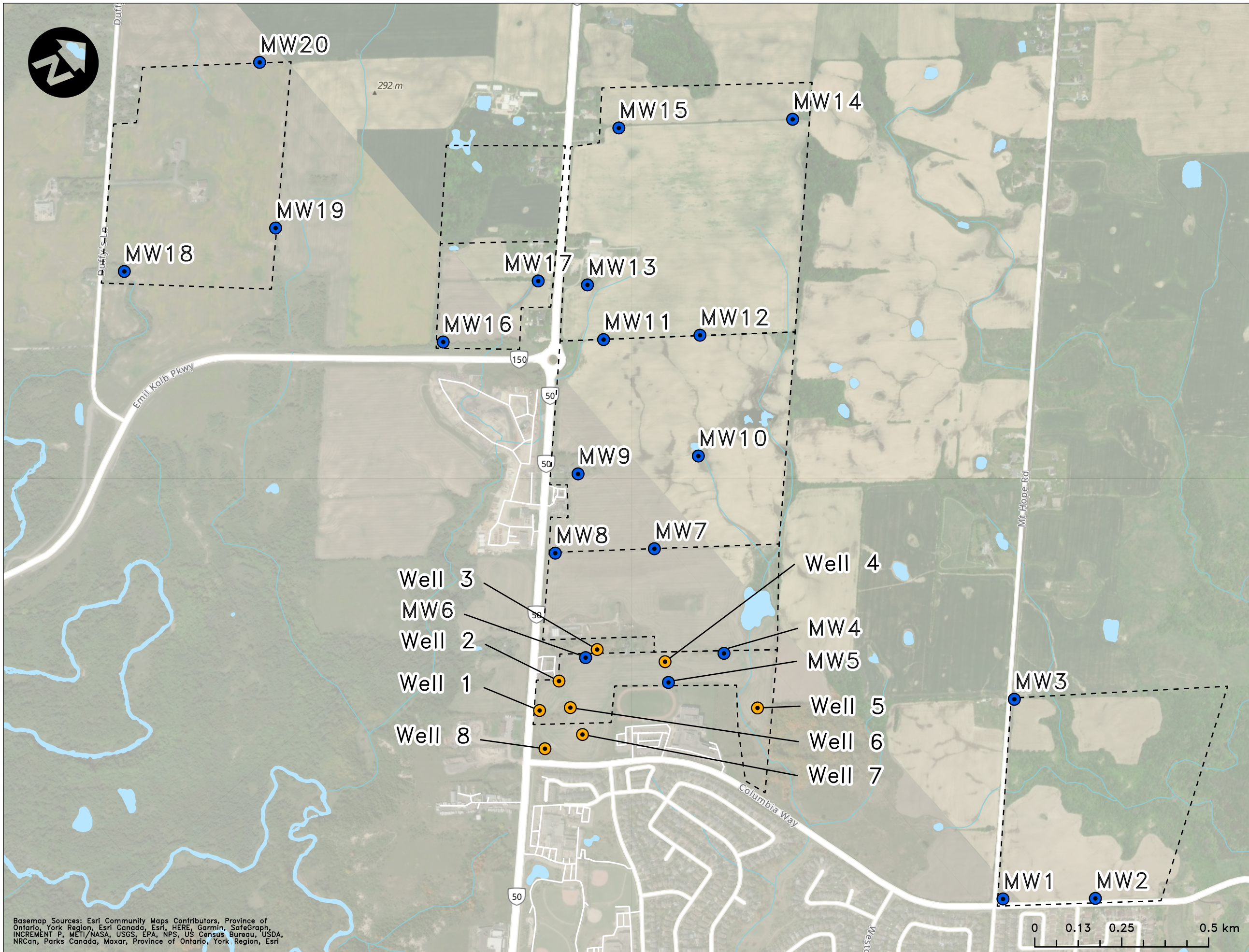
Jonathan Fung, B.A.Sc.

Kin Fung Li, P.Eng.
JF/KFL



cc. Mr. Travis Gibson (C.F. Crozier & Associates Inc.)

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LEGEND

- Monitoring Well
- Old Wells
- MW1 Monitoring Well Label

DRAWING NOTES:

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THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT. DO NOT SCALE THIS DRAWING.

ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

Project **BOLTON NORTH HILL TOWN OF CALEDON**

Drawing **MONITORING WELL LAYOUT**

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Drawn	C.M.	Design	C.G.	Project No.	0708-3446
Date	21-11-11	Projection	EPSG:26917	Scale	1:10,500
				Dwg.	FIG. 3

Basemap Sources: Esri Community Maps Contributors, Province of Ontario, York Region, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada, Maxar, Province of Ontario, York Region, Esri



MONITORING WELL MW1-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0601388 4861570
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 265 masl
ADDRESS 9948 Columbia Way, Bolton	DRILLING METHOD Augering Hollow Flight	WELL TOC 0.81 m
DRILLING DATE 21/11/01	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/01	CASING PVC	SCREEN PVC
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COMMENTS Columbia Way parcel, near 'Columbia Way' Sign

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)
0.5							TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	264.5
1.0		SS 2.5 - 4.5ft	SS				SILTY CLAY: Brown, silty clay, moist, dense, interbedded grey silt seams, minor gravel		Very Stiff	264
1.5										263.5
2.0		SS 5.0 - 7.0ft	SS							263
2.5										262.5
3.0		SS 7.5 - 9.5ft	SS				CLAYEY SILT TILL: Brown, clayey silt till to silty clay till, minor gravel, dense, moist		Hard	262
3.5										261.5
4.0										261
4.5		SS 10.0 - 12.0ft	SS							260.5
5.0										260
5.5		SS 15.0 - 17.0ft	SS							259.5
6.0							SILTY CLAY: Grey, silty clay, moist, dense, minor gravel, seam		Very Stiff	259
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			258.5
7.0	AU									258
7.5										257.5

Disclaimer This bore log is intended for environmental not geotechnical purposes.



MONITORING WELL MW2-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0601218 4861366
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 263 masl
ADDRESS 9948 Columbia Way, Bolton	DRILLING METHOD Augering Hollow Flight	WELL TOC 0.89 m
DRILLING DATE 21/11/01	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/01	CASING PVC	SCREEN PVC
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COMMENTS Corner of Columbia Way and Mount Hope Road

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)
0.5							TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	262.5
1		SS 2.5 - 4.5ft	SS				SILTY CLAY: Brown, silty clay, moist, dense, interbedded grey silt seams, minor gravel, @3.05m grey silty clay		Very Stiff	262
1.5										261.5
2		SS 5.0 - 7.0ft	SS							261
2.5										260.5
3		SS 7.5 - 9.5ft	SS							260
3.5										259.5
4										259
4.5		SS 15.0 - 17.0ft	SS				CLAYEY SILT TILL: Grey, clayey silt till to silty clay till, minor gravel, dense, moist			258.5
5										258
5.5							SILTY CLAY: Grey, silty clay, moist, dense, grey clay seam @6.10m		Stiff	257.5
6										257
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at:6.10 m			256.5
7	AU									256
7.5										255.5

Disclaimer This bore log is intended for environmental not geotechnical purposes.



MONITORING WELL MW3-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0600800 4861761
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 265 masl
ADDRESS Mount Hope Road, Bolton	DRILLING METHOD Augering Hollow Flight	WELL TOC 0.91 m
DRILLING DATE 21/11/02	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/02	CASING PVC	SCREEN PVC
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COMMENTS Behind "No Trespassing" Sign

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)
0.5	AU	SS 2.5 - 4.5ft	SS	∇			TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	264.5
1							SILTY CLAY: Brown, silty clay, moist, dense, interbedded grey silt seams, minor gravel		Very Stiff	264
1.5		SS 5.0 - 7.0ft	SS				263.5			
2		SS 7.5 - 9.5ft	SS				263			
2.5							262.5			
3		SS 10.0 - 12.0ft	SS				262			
3.5	SS 15.0 - 17.0ft	SS	261.5							
4			SILTY CLAY: Grey, silty clay, moist, dense, grey clay seams	261						
4.5			260.5							
5			Wet	Stiff	260					
5.5	SS 20.0 - 22.0ft	SS	259.5							
6			Termination Depth at: 6.10 m	259						
6.5			258.5							
7	258									
7.5	257.5									



MONITORING WELL MW4-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0600161 4861208
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 261 masl
ADDRESS Lot 12, Concession 7, Albion	DRILLING METHOD Augering Hollow Flight	WELL TOC 0.99 m
DRILLING DATE 21/11/11	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/10	CASING PVC	SCREEN PVC
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COMMENTS Near tree line, mid field near stream

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)		
0.5	AU			∇			TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	260.5		
1		SS 2.5 - 4.5ft	SS				SILTY CLAY: Brown, silty clay, grey silty clay seams, moist, medium dense, minor gravel		Medium	260		
1.5												259.5
2		SS 5.0 - 7.0ft	SS				SILTY SAND: Brown, silty sand, saturated	Wet		259		
2.5												258.5
3		SS 7.5 - 9.5ft	SS				SILTY CLAY: Brown, silty clay, grey silty clay seams, medium dense, moist, trace gravel	Moist		258		
3.5												257.5
4		SS 10.0 - 12.0ft	SS				SILTY SAND: Brown, silty sand, saturated	Wet		257		
4.5												256.5
5		SS 15.0 - 17.0ft	SS				SILTY CLAY: Grey, silty clay, trace gravel	Moist		256		
5.5								255.5				
6									255			
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			254.5		
7										254		
7.5										253.5		



MONITORING WELL MW5-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0600122 4861032
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 264 masl
ADDRESS Lot 12, Concession 7, Albion	DRILLING METHOD Augering Hollow Flight	WELL TOC 0.97 m
DRILLING DATE 21/11/02	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/02 **CASING** PVC **SCREEN** PVC

COMMENTS Near High School scoreboard, North of fence

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)
0.5	AU	SS 2.5 - 4.5ft	SS	∇			TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	263.5
1							SILTY CLAY: Brown, silty clay, moist, dense, interbedded grey silt seams, minor gravel		Very Stiff	263
1.5		SS 5.0 - 7.0ft	SS				262.5			
2		SS 7.5 - 9.5ft	SS				262			
2.5							261.5			
3		SS 10.0 - 12.0ft	SS				261			
3.5				260.5						
4						SILT: Grey, silt, minor sand, saturated, 1.2 m seam	Wet	Medium	260	
4.5		SS 15.0 - 17.0ft	SS						259.5	
5							SILTY CLAY: Grey, silty clay, stone poor, moist	Moist	Stiff	259
5.5									258.5	
6									258	
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			257.5
7									257	
7.5									256.5	



MONITORING WELL MW6-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0599914 4860896
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 264 masl
ADDRESS Lot 12, Concession 7, Albion	DRILLING METHOD Augering Hollow Flight	WELL TOC 0.98 m
DRILLING DATE 21/11/02	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/02	CASING PVC	SCREEN PVC
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COMMENTS North edge of field behind autoshop

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)				
0.5	AU	SS 2.5 - 4.5ft	SS	▽			TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	263.5				
							SILTY CLAY: Brown, silty clay, moist, dense, interbedded grey silt seams, minor gravel		Very Stiff					
1													263	
1.5			SS 5.0 - 7.0ft				SS							262.5
2														262
2.5			SS 7.5 - 9.5ft				SS							261.5
3										261				
3.5		SS 10.0 - 12.0ft	SS				SILT: Grey, silt, minor sand, saturated, approximately 0.60 m seam	Wet	Medium	260.5				
4										260				
4.5										259.5				
4.5		SS 15.0 - 17.0ft	SS				SILTY CLAY: Grey, silty clay, stone poor, moist	Moist	Very Stiff	259				
5										258.5				
5.5										258				
6										257.5				
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			257				
7										256.5				
7.5														



MONITORING WELL MW7-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0599802 4861249
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 268 masl
ADDRESS 14337 Highway 50, Bolton	DRILLING METHOD Augering Hollow Flight	WELL TOC
DRILLING DATE 21/11/03	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/03	CASING PVC	SCREEN PVC
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COMMENTS Garden centre field along fence line

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)	
0.5	AU						TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	267.5	
1		SS 2.5 - 4.5ft	SS				SILTY CLAY: Brown, silty clay, moist, dense, interbedded grey silt, minor clay seams, minor gravel		Very Stiff	267	
1.5										266.5	
2		SS 5.0 - 7.0ft	SS					SANDY SILT: Grey, sandy silt, saturated, approximately 0.60 m seam	Wet	Medium	266
2.5										265.5	
3		SS 7.5 - 9.5ft	SS					SILTY CLAY: Grey, silty clay, stone poor, moist	Moist	Stiff	265
3.5										264.5	
4		SS 10.0 - 12.0ft	SS					SILT: Grey, silt minor sand, saturated	Wet	Medium	264
4.5										263.5	
5		SS 15.0 - 17.0ft	SS							263	
5.5							SILTY CLAY: Grey, silty clay, dense, moist	Moist	Stiff	262.5	
6									262		
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			261.5	
7									261		
7.5									260.5		



MONITORING WELL MW8-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0599628 4861023
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 266 masl
ADDRESS 14337 Highway 50, Bolton	DRILLING METHOD Augering Hollow Flight	WELL TOC
DRILLING DATE 21/11/03	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/03	CASING PVC	SCREEN PVC
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COMMENTS Northwest corner of field near garden centre

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)				
0.5	AU			▽			TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose Very Stiff	265.5				
1		SS 2.5 - 4.5ft	SS				265							
1.5										SILTY CLAY: Brown, silty clay, moist, dense, interbedded grey silt, minor gravel			264.5	
2		SS 5.0 - 7.0ft	SS							SANDY SILT: Grey, sandy silt, saturated, approximately 0.40 m seam	Wet	Soft - Medium	264	
2.5		SS 7.5 - 9.5ft	SS							SILTY CLAY: Grey, silty clay, stone poor, moist	Moist	Very Stiff	263.5	
3													263	
3.5		SS 10.0 - 12.0ft	SS										262.5	
4													262	
4.5		SS 15.0 - 17.0ft	SS								SILT: Grey, silt minor sand, saturated, approximately 0.30 m seam	Wet	Medium	261.5
5											SILTY CLAY: Grey, silty clay, dense, moist	Moist	Very Stiff	261
5.5									260.5					
6									260					
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			259.5				
7										259				
7.5										258.5				



MONITORING WELL MW9-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0599496 4861220
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 270 masl
ADDRESS 14475 Highway 50, Bolton	DRILLING METHOD Augering Hollow Flight	WELL TOC
DRILLING DATE 21/11/04	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/04	CASING PVC	SCREEN PVC
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COMMENTS By existing barn, north edge of field

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)
0.5	AU			∇			TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose Very Stiff	269.5
1		SS 2.5 - 4.5ft	SS				269			
1.5								268.5		
2		SS 5.0 - 7.0ft	SS				268			
2.5								267.5		
3		SS 7.5 - 9.5ft	SS				267			
3.5						SILTY CLAY: Grey, silty clay, dense, moist			266.5	
4									266	
4.5									265.5	
5		SS 15.0 - 17.0ft	SS				SILT: Grey, silt minor sand, saturated, approximately 0.30 m seam	Wet	Soft - Medium	265
5.5							SILTY CLAY: Grey, silty clay, dense, moist	Moist	Very Stiff	264.5
6									264	
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			263.5
7									263	
7.5									262.5	



MONITORING WELL MW10-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0599679 4861517
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 263 masl
ADDRESS 14475 Highway 50, Bolton	DRILLING METHOD Augering Hollow Flight	WELL TOC
DRILLING DATE 21/11/04	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/04	CASING PVC	SCREEN PVC
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COMMENTS South bank of pond in middle of property

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)
0.5	AU	SS 2.5 - 4.5ft	SS	∇			TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose Very Stiff	262.5
1							262			
1.5		SS 5.0 - 7.0ft	SS				261.5			
2		SS 7.5 - 9.5ft	SS				261			
2.5							260.5			
3		SS 10.0 - 12.0ft	SS				260			
3.5	SS 15.0 - 17.0ft	SS	259.5							
4			259							
4.5			SILT: Grey, silt minor sand, saturated, approximately 0.30 m seam	Wet	Soft - Medium	258.5				
5			SILTY CLAY: Grey, silty clay, dense, moist	Moist	Very Stiff	258				
5.5	SS 20.0 - 22.0ft	SS	257.5							
6			257							
6.5			Termination Depth at: 6.10 m			256.5				
7									256	
7.5										255.5



MONITORING WELL MW11-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0599248 4861525
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 270 masl
ADDRESS 14475 Highway 50, Bolton	DRILLING METHOD Augering Hollow Flight	WELL TOC
DRILLING DATE 21/11/04	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/04	CASING PVC	SCREEN PVC
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COMMENTS Northwest corner of property along fence line

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)	
0.5	AU						TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	267.5	
1.0		SS 2.5 - 4.5ft	SS				SILTY CLAY: Brown, silty clay, grey silty clay seams, moist, dense, minor gravel, trace sand		Very Stiff	267	
1.5										266.5	
2.0		SS 5.0 - 7.0ft	SS							266	
2.5										265.5	
3.0		SS 7.5 - 9.5ft	SS							265	
3.5										264.5	
4.0		SS 10.0 - 12.0ft	SS							264	
4.5					▽			SILTY CLAY: Grey, silty clay, dense, moist, trace gravel			263.5
5.0		SS 15.0 - 17.0ft	SS								263
5.5							SANDY SILT: Grey, silt minor sand, saturated, approximately 0.80 m seam	Wet	Soft - Medium	262.5	
6.0										262	
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			261.5	
7.0										261	
7.5										260.5	

Disclaimer This bore log is intended for environmental not geotechnical purposes.



MONITORING WELL MW12-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0599417 4861745
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 268 masl
ADDRESS 14475 Highway 50, Bolton	DRILLING METHOD Augering Hollow Flight	WELL TOC
DRILLING DATE 21/11/04	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/04	CASING PVC	SCREEN PVC
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COMMENTS Edge of field, NE parcel, along fence line

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)
0.5	AU			▽			TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose Very Stiff	267.5
1		SS 2.5 - 4.5ft	SS				267			
1.5								266.5		
2		SS 5.0 - 7.0ft	SS				266			
2.5								265.5		
3		SS 7.5 - 9.5ft	SS				265			
3.5								264.5		
4		SS 10.0 - 12.0ft	SS				264			
4.5								263.5		
5		SS 15.0 - 17.0ft	SS				263			
5.5				262.5						
6				262						
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			261.5
7										261
7.5										260.5

Disclaimer This bore log is intended for environmental not geotechnical purposes.



MONITORING WELL MW13-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0599098 4861591
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 270 masl
ADDRESS 14685 Highway 50, Bolton	DRILLING METHOD Augering Hollow Flight	WELL TOC
DRILLING DATE 21/11/08	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/08	CASING PVC	SCREEN PVC
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COMMENTS Near farm silos

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)
0.5	AU	SS 2.5 - 4.5ft	SS	∇			TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	269.5
1							SILTY CLAY: Brown, silty clay, grey silty clay seams, moist, dense, minor gravel, trace sand		Very Stiff	269
1.5		SS 5.0 - 7.0ft	SS				268.5			
2		SS 7.5 - 9.5ft	SS				268			
2.5							267.5			
3		SS 10.0 - 12.0ft	SS				267			
3.5	SS 15.0 - 17.0ft	SS	SILTY CLAY: Grey, silty clay, grey silty clay seams, dense, moist, trace gravel	Wet	Medium	266.5				
4			266							
4.5			265.5							
5			SANDY SILT: Grey, silty sand to sandy silt, saturated, approximately 0.60 m seam			265				
5.5	SS 20.0 - 22.0ft	SS	SILTY CLAY: Grey, silty clay to clay, dense, moist, trace gravel	Moist	Stiff	264.5				
6			264							
6.5	Termination Depth at: 6.10 m								263.5	
7									263	
7.5									262.5	



MONITORING WELL MW14-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0599114 4862349
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 269 masl
ADDRESS 14685 Highway 50, Bolton	DRILLING METHOD Augering Hollow Flight	WELL TOC
DRILLING DATE 21/11/05	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/05	CASING PVC	SCREEN PVC
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COMMENTS Northeast corner of parcel along fence by woodlot and east cornfield

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)				
0.5	AU			iv			TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	268.5				
							SILTY CLAY: Brown, silty clay, grey silty clay seams, moist, dense, minor gravel, trace sand		Very Stiff					
1		SS 2.5 - 4.5ft	SS										268	
1.5													267.5	
		SS 5.0 - 7.0ft	SS										267	
2														
		SS 7.5 - 9.5ft	SS								SANDY SILT: Brown, silty sand to sandy silt, saturated, approximately 0.50 m seam	Wet	Medium	266.5
2.5														
		SS 10.0 - 12.0ft	SS								SILTY CLAY: Brown, silty clay, dense, moist, trace gravel	Moist	Stiff	266
3														
3.5										265.5				
4							SANDY SILT: Brown, sandy silt, saturated, approximately 1 m	Wet	Medium	265				
4.5										264.5				
	SS 15.0 - 17.0ft	SS												
5							SILTY CLAY: Grey, silty clay to clay, dense, moist, trace gravel	Moist	Stiff	264				
5.5										263.5				
6										263				
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			262.5				
7										262				
7.5										261.5				



MONITORING WELL MW15-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0598811 4861951
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 271 masl
ADDRESS 14685 Highway 50, Bolton	DRILLING METHOD Augering Hollow Flight	WELL TOC
DRILLING DATE 21/11/05	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/05	CASING PVC	SCREEN PVC
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COMMENTS Northwest corner of the property, behind red brick

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)
0.5	AU			∇			TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	270.5
1		SS 2.5 - 4.5ft	SS				SILTY CLAY: Brown, silty clay, grey silty clay seams, moist, dense, minor gravel, trace sand	Very Stiff	270	
1.5									269.5	
2		SS 5.0 - 7.0ft	SS						269	
2.5									268.5	
3		SS 7.5 - 9.5ft	SS						268	
3.5						SANDY SILT: Brown, silty sand to sandy silt, saturated, approximately 0.50 m seam	Wet	Medium	267.5	
4						SILTY CLAY: Brown, silty clay, grey silty clay seams, dense, moist, trace gravel	Moist	Stiff	267	
4.5						SANDY SILT: Brown, sandy silt, saturated, approximately 0.2 m	Wet	Medium	266.5	
5	SS 15.0 - 17.0ft	SS				SILTY CLAY: Grey, silty clay to clay, dense, moist, trace gravel	Moist	Stiff	266	
5.5									265.5	
6									265	
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			264.5
7									264	
7.5									263.5	



MONITORING WELL MW16-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0598956 4861168
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 268 masl
ADDRESS Hwy 50 and Hwy 150 Parcel	DRILLING METHOD Augering Hollow Flight	WELL TOC
DRILLING DATE 21/11/08	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/08	CASING PVC	SCREEN PVC
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COMMENTS Southwest corner of field by treeline

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)
0.5	AU						TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose Very Stiff	267.5
1		SS 2.5 - 4.5ft	SS				SILTY CLAY: Brown, silty clay, grey silty clay seams, moist, dense, minor gravel			267
1.5										266.5
2		SS 5.0 - 7.0ft	SS							266
2.5										265.5
3		SS 7.5 - 9.5ft	SS							265
3.5										264.5
4										264
4.5										263.5
5		SS 15.0 - 17.0ft	SS					SILTY CLAY: Grey, silty clay, grey silty clay seams, dense, moist, trace gravel		
5.5										262.5
6										262
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			261.5
7										261
7.5										260.5

Disclaimer This bore log is intended for environmental not geotechnical purposes.



MONITORING WELL MW17-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0598998 4861490
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 269 masl
ADDRESS Hwy 50 and Hwy 150 Parcel	DRILLING METHOD Augering Hollow Flight	WELL TOC 1.03 m
DRILLING DATE 21/11/09	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/09	CASING PVC	SCREEN PVC
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COMMENTS North of roundabout, northeast corner of property

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)		
0.5	AU						TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	268.5		
1		SS 2.5 - 4.5ft	SS					SILTY CLAY: Brown, silty clay, grey silty clay seams, moist, dense, minor gravel		Very Stiff	268	
1.5												267.5
2		SS 5.0 - 7.0ft	SS						SANDY SILT: Brown, sandy silt to silt, minor clay, saturated	Wet	Medium	267
2.5												266.5
3		SS 7.5 - 9.5ft	SS						SILTY CLAY: Brown, silty clay, grey silty clay to silt seams, moist, dense, minor gravel	Moist	Stiff	266.5
3.5												266
4		SS 10.0 - 12.0ft	SS						SILTY CLAY: Grey, silty clay, grey silty clay seams, dense, moist, trace gravel			266
4.5												265.5
5		SS 15.0 - 17.0ft	SS									265
5.5									264.5			
6									264			
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			263.5		
7									263			
7.5									262.5			

Disclaimer This bore log is intended for environmental not geotechnical purposes.



MONITORING WELL MW18-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0598210 4860598
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 261 masl
ADDRESS 14601 Duffy's Lane	DRILLING METHOD Augering Hollow Flight	WELL TOC 1.03 m
DRILLING DATE 21/11/09	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/09	CASING PVC	SCREEN PVC
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COMMENTS Behind gravel area, willow farm

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)
0.5	AU	SS 2.5 - 4.5ft	SS				TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	260.5
1							SILTY CLAY: Brown, silty clay, grey silty clay seams, moist, medium dense, minor gravel		Medium	260
1.5		SS 5.0 - 7.0ft	SS				259.5			
2		SS 7.5 - 9.5ft	SS				259			
2.5							CLAY: Grey clay, trace gravel, iron staining, moist, medium dense	258.5		
3		SS 10.0 - 12.0ft	SS				258			
3.5		SS 15.0 - 17.0ft	SS				SILTY CLAY: Grey, silty clay, grey silty clay seams, dense, moist, trace gravel	Stiff	257.5	
4							257			
4.5							256.5			
5							256			
5.5	SS 20.0 - 22.0ft	SS	Termination Depth at: 6.10 m		255.5					
6					255					
6.5					254.5					
7					254					
7.5					253.5					



MONITORING WELL MW19-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0598395 4861011
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 262 masl
ADDRESS 14601 Duffy's Lane	DRILLING METHOD Augering Hollow Flight	WELL TOC 0.95 m
DRILLING DATE 21/11/10	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/10	CASING PVC	SCREEN PVC
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COMMENTS South field, east fence at the start of south treeline

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)	
0.5	AU						TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	261.5	
1		SS 2.5 - 4.5ft	SS				SILTY CLAY: Brown, silty clay, grey silty clay seams, moist, medium dense, minor gravel		Medium	261	
1.5										260.5	
2		SS 5.0 - 7.0ft	SS							260	
2.5										259.5	
3		SS 7.5 - 9.5ft	SS							259	
3.5								SILTY CLAY: Grey, silty clay, grey silty clay seams, medium dense, moist, trace gravel			258.5
4										258	
4.5										257.5	
5		SS 15.0 - 17.0ft	SS							257	
5.5									256.5		
6									256		
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			255.5	
7										255	
7.5										254.5	



MONITORING WELL MW20-21

PROJECT NUMBER 0708 - 3446	DRILLING COMPANY ACE Environmental Drilling	COORDINATES 17T 0598001 4861283
PROJECT NAME Bolton North Hill	DRILLER John/Nick	COORD SYS UTM
CLIENT Bolton North Hill Landowner Group	DRILL RIG GT3126 Geoprobe	SURFACE ELEVATION 265 masl
ADDRESS 14601 Duffy's Lane	DRILLING METHOD Augering Hollow Flight	WELL TOC 1.01 m
DRILLING DATE 21/11/10	TOTAL DEPTH 6.1 m	LOGGED BY CM
LICENCE NO. 7725	DIAMETER 51 mm	CHECKED BY CG

COMPLETION 21/11/10	CASING PVC	SCREEN PVC
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COMMENTS In between two iron posts northeast corner of the property

Depth (m)	Drilling Method	Samples	Sample Type	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Elevation (m)
0.5	AU						TOPSOIL: Dark brown, silty to clay silt, organic, abundant rootlets	Moist	Loose	264.5
1		SS 2.5 - 4.5ft	SS				SILTY CLAY: Brown, silty clay, grey silty clay seams, moist, medium dense, minor gravel		Medium	264
1.5										263.5
2		SS 5.0 - 7.0ft	SS							263
2.5										262.5
3		SS 7.5 - 9.5ft	SS							262
3.5										261.5
4										261
4.5		SS 15.0 - 17.0ft	SS							260.5
5										260
5.5						259.5				
6						259				
6.5		SS 20.0 - 22.0ft	SS				Termination Depth at: 6.10 m			258.5
7										258
7.5										257.5

Monitoring Well Levels - Bolton North Hill							
Project Number: 708-3446		Address: Bolton North Hill Lands					
Prepared by: MD		Date completed: 2022-02-24					
					February 8 to February 24, 2022		
Monitoring Well	Elevation (masl) ¹	Depth (m)	Stick-Up (m)	Date	Measured Level (m)	Corrected Water Level (mbgs)	Corrected Water Level (masl)
MW1-21	265	6.10	0.81	Feb 8 2022	2.16	1.35	263.65
MW2-21	263	6.10	0.89	Feb 8 2022	2.23	1.34	261.66
MW3-21	265	6.10	0.91	Feb 8 2022	3.17	2.26	262.74
MW4-21	261	6.10	0.99	Feb 8 2022	3.39	2.40	258.60
MW5-21	264	6.10	0.97	Feb 8 2022	3.24	2.27	261.73
MW6-21	264	6.10	0.98	Feb 8 2022	3.16	2.18	261.82
MW7-21	268	6.10	1.09	Feb 24 2022	2.88	1.79	266.21
MW8-21	266	6.10	1.08	Feb 24 2022	2.14	1.06	264.94
MW9-21	270	6.10	1.07	Feb 24 2022	3.22	2.15	267.85
MW10-21	263	6.10	1.08	Feb 24 2022	2.46	1.38	261.62
MW11-21	270	6.10	1.06	Feb 24 2022	4.39	3.33	266.67
MW12-21	268	6.10	1.10	Feb 24 2022	4.12	3.02	264.98
MW13-21	270	6.10	1.09	Feb 24 2022	2.61	1.52	268.48
MW14-21	269	6.10	1.01	Feb 24 2022	2.54	1.53	267.47
MW15-21	271	6.10	1.02	Feb 24 2022	2.32	1.30	269.70
MW16-21	268	6.10	1.09	Feb 8 2022	3.87	2.78	265.22
MW17-21	269	6.10	0.87	Feb 8 2022	2.10	1.23	267.77
MW18-21	261	6.10	1.03	Feb 8 2022	2.94	1.91	259.09
MW19-21	262	6.10	0.95	Feb 8 2022	2.70	1.75	260.25
MW20-21	265	6.10	1.01	Feb 8 2022	2.92	1.91	263.09

1. Measured in the field using a Garmin ETREX 10 Handheld GPS.