B. Weber

INTER OFFICE MEMO

UMA Group

TO Brian Weber/Ian Morley

DATE December 3, 1986

FROM Ralph Wittebolle

OUR FILE NO. 5362-001-01

RE Site Investigation
Milanese Subdivision - Dryden Ontario

On October 9 and 10, 1986, a site investigation was conducted at the Milanese Subdivision in Dryden, Ontario. The purpose of the investigation was to define the general soil stratigraphy to aid in the design of future site development. Drawing 01 shows a site plan of the area with the test hole locations. The test hole logs are also included with this memo.

Test holes 9 to 19 and 21 to 26 were located along Sandy Beach Road to establish a bedrock profile. The test hole logs show that the depth to bedrock varies from 0.6 metres to 7.9 metres. The depth to bedrock is generally greater than 4.5 metres below ground surface along the western section of Sandy Beach Road (TH 9-16). East of test hole 16 the bedrock profile rises to a maximum of 0.6 m below ground surface at test hole 18. The test hole logs show a general stratigraphy of clay and sand overlying the bedrock.

Test holes 6, 7, and 8 were located along Mario Milanese Place and Elvis Avenue to assess subsurface conditions for road construction. The test hole logs show that the bedrock is ~~at~~ below a depth of 4.8 metres below ground surface and is overlain by a silty sand. Test hole 6 encountered a clay layer from 2 to 8 metres. Representative samples of the sand and clay were obtained for further testing if required.

Test holes 1, 2, and 3 were located at the proposed site for a wet well lift station. The test holes at this location show that bedrock is overlain by a loose to medium dense fine silty sand. The sand becomes finer with depth. The surface of the bedrock dips steeply from 1.8 m below ground surface at test hole 2 to 9.9 m below surface at test hole 3. The static groundwater level was measured at 5.8 m below existing ground surface.

Test holes 4, 5, and 20 were located at an alternate location for the lift station. The test holes show that the bedrock varies in depth from 1.5 m to 2.74 m below ground surface at this location. The bedrock is overlain by a fine silty sand. The sand was moist however no free water was observed during drilling.

The base elevation for the lift station at the proposed location is 369.5 m which is approximately 3.85 metres below the static water table. Considerable sloughing of the fine sand can be expected below the water table and thus some form of shoring or dewatering must be employed. A sheet pile wall is impractical since the depth of embedment

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is limited by the bedrock. In similar conditions at other locations, contractors have installed lift stations by excavating the sand through the centre of the lift station with a clam shell. As the excavation proceeds the lift station is lowered to provide retention of the sand. A bentonite slurry is often used during construction. Upon completion of the excavation a concrete plug is placed at the bottom of the lift station. The success of this method largely depends upon the skill of the contractor.

Dewatering the area adjacent to the lift station with a sand point well system is considered to be impractical due to the relatively low permeability of the silty sands.

At the alternate lift station site, the groundwater table was not encountered and standard construction procedures could be used. The major restriction at this location is the limited depth of overburden. The angle of repose for the silty sand is estimated at approximately 28° and therefore excavation side slopes of 2.5 H:1V should be stable for the short term construction period.

In summary the alternate lift station location is preferred if the depth of overburden is sufficient. If the original proposed location is selected, specialized construction procedures will have to be employed.

We trust that this meets with your requirements. If you have further questions, please contact us.

R. J. Wittebolle, M.Sc., P. Eng.
Geotechnical Projects Coordinator
Earth Sciences Division

RJW/pmb

cc: T. Hunter

The UMA Group

PROJECT Milanese Subdivision Services
CLIENT Wabigoon Developments Ltd
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TEST HOLE 1
SHEET 1 of 27
CHECKED _____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT-○
LIQUID LIMIT ——□
PLASTIC LIMIT ——△

SURFACE ELEVATION 378.471 m
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		TOPSOIL MIX WITH SAND				
4		SAND - FINE - LT BROWN				
6		Refusal @ 5.5' on Rock 373.9				
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 2
SHEET 2 of 27
CHECKED _____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT ——— □
PLASTIC LIMIT ——— △

SURFACE ELEVATION 378.526
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		TOPSOIL MIXED WITH SAND				
4		SAND FINE - LT BROWN				
6		REFUSAL @ 6.0' ON ROCK				
8		372.70				
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 3
SHEET 3 of 27
CHECKED ____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT — · — □
PLASTIC LIMIT —— △

SURFACE ELEVATION 379.173
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND - MED WITH SILT - GRAY				
4						
6			1A	2		
8						
10		- UNIFORM - FINE	2A	10		
12						
14		- LAYED - WITH SILT				
16			3A	12		
18		▽ 373.38				
20						
22		- COARSE - UNIFORM	4A	8		
24						
26		- MED TO FINE - WITH SILT	5A	6		
28						
30						
32			6A	14		
34		END OF HOLE @ 32.5' ON ROCK				
36		WATER LEVEL @ 19.0 IN 2 HOURS				
38		346.27				
40						
42						
44						

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TEST HOLE 4
SHEET 4 of 27
CHECKED ____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT ——— □
PLASTIC LIMIT ——— △

SURFACE ELEVATION 374.087
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND - WITH SHOT ROCK - MED SAND				
4						
6		REFUSAL @ 5.0 ON ROCK. 372.56				
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 5
SHEET 5 of 27
CHECKED _____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT ——— □
PLASTIC LIMIT ——— △

SURFACE ELEVATION 373.849
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND - MED TO FINE - MOIST				
4						
6		371.91 m				
8		REFUSAL @ 7.0 ON ROCK				
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 6
SHEET 6 of 27
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TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT —— □
PLASTIC LIMIT —— △

SURFACE ELEVATION _____
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND - FINE - BROWN SILT - LT BR. DENSE CLAY - GRAY - WITH SILT				
4		CLAY - RED - TRACE SILT				
6		CLAY - SILTY - LAYERS OF SAND				
8		SAND - FINE TO MED - WET				
10						
12		SAND - WITH SILT - SOME CLAY - WET				
14						
16		SAND - MED TO COARSE WET.				
		END OF HOLE @ 16.0'				
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 7
SHEET 1 of 27
CHECKED _____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT —·—□
PLASTIC LIMIT ——△

SURFACE ELEVATION _____
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND - FINE - BROWN				
4		SAND - FINE - LT BROWN				
6						
8						
10		SAND - SILTY - FINE - WET - TRACE CLAY - GRAY				
12						
14		SAND - SILTY - DENSE - DRY - WITH CLAY				
16		END OF HOLE @ 16.0'				
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
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TEST HOLE 8
SHEET 8 of 27
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TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT —·—·— □
PLASTIC LIMIT —— △

DEPTH	SOIL PROFILE	SURFACE ELEVATION / CO-ORDINATES / SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND - FINE - BROWN				
4						
6						
8		- DAMP - MED				
10		- VERY FINE				
12		- DAMP TO MOIST				
14						
16		END OF HOLE @ 16.0'				
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 9
SHEET 9 of 27
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TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT —— □
PLASTIC LIMIT —— △

SURFACE ELEVATION 385.529
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
		SAND - FINE - DK BROWN				
2		CLAY - BROWN - STIFF - WITH SILT				
4		- BECOMING SOFTER				
6		CLAY - BROWN - WITH SILT - LAYERS OF SAND - WET				
8		- GRAY - SOFT				
10		- SAND LAYERS / POCKETS				
12						
14						
16		SAND - SILTY - FINE - GRY - DENSE				
		END OF HOLE @ 16.0'				
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
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TEST HOLE 10
SHEET 10 of 27
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TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT — — □
PLASTIC LIMIT —— △

SURFACE ELEVATION 385.238
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		CLAY - GRAY - FIRM - WITH SILT				
4						
6		CLAY - BROWN - FIRM - WITH SILT - SAND LAYERS - DAMP TO MOIST				
8						
10						
12						
14		SAND - GRAY - FINE - DENSE - WITH SILT - DRIER				
16		END OF HOLE @ 16.0'				
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 11
SHEET 11 of 27
CHECKED _____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT —·—□
PLASTIC LIMIT —— △

SURFACE ELEVATION 385.117
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
		SAND-FILL				
2		CLAY - FIRM - BROWN - SILT LAYERS				
4						
6		CLAY - BROWN - FIRM to SOFT - SAND LAYERS - WITH SILT				
8						
10						
12						
14		SILT - GRAY - WITH FINE SAND - DENSE				
16		END OF HOLE @ 16.0'				
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
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TEST HOLE 12
SHEET 12 of 27
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TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT —·— □
PLASTIC LIMIT —— △

SURFACE ELEVATION 384.734
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND - FILL CLAY - FIRM - SILT LAYERS				
4						
6		CLAY - GRAY - SAND LAYERS - WITH SILT				
8						
10						
12		SAND - GRAY - WITH SILT - FINE				
14						
16		END OF HOLE @ 16.0'				
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 13
SHEET 13 of 27
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TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT — · — □
PLASTIC LIMIT — △

SURFACE ELEVATION 383.776
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND				
4		CLAY - GRAY - FIRM - SILT/SAND LAYERS - SAND LAYER				
6						
8		SILT - GRAY - WITH FINE SAND - DENSE - DAMP				
10						
12						
14						
16		END OF HOLE @ 16.0'				
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 19
SHEET 14 of 27
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TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT — · — □
PLASTIC LIMIT — △

SURFACE ELEVATION 384.116
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		CLAY - BROWN - SOFT - WITH SILT AND FINE SAND				
4						
6		SAND - WITH SILT - DENSE - DAMP - SOME CLAY				
8						
10						
12						
14						
16		SAND - GRAY - FINE - SOME SILT - UNIFORM				
18						
20						
22		END OF HOLE @ 21.0'				
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 15
SHEET 15 of 27
CHECKED _____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT ——— □
PLASTIC LIMIT ——— △

SURFACE ELEVATION 384.691
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SILT - GRAY - WITH FINE SAND				
4		- WITH GRAVEL - WITH SAND				
6		SAND - GRAY - WITH SILT				
8						
10						
12		SAND - GRAY - WITH SILT - DENSE - MED TO FINE				
14						
16						
18		- BECOMING FINER & CLEANER WITH DEPTH				
20						
22						
24						
26		END OF HOLE @ 26'				
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 16
SHEET 16 of 27
CHECKED _____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT —·— □
PLASTIC LIMIT —— △

SURFACE ELEVATION 382.090
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND - MED TO FINE				
4						
6						
8		- MORE MED				
10		- FINER WITH DEPTH				
12						
14		- MED SAND				
16						
18						
20		END OF HOLE ON ROCK @ 18.5'				
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 17
SHEET 17 of 27
CHECKED _____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT ——— □
PLASTIC LIMIT ——— △

SURFACE ELEVATION 378.950
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND - FINE				
4						
6		- WITH SILT				
8		- DAMP TO WET				
10		WETTER WITH DEPTH				
12						
14		END OF HOLE @ 12.5' ON ROCK				
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 18
SHEET 18 of 27
CHECKED ____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT —·—□
PLASTIC LIMIT —— △

SURFACE ELEVATION 378.929
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND				
		END OF HOLE @ 2' ON ROCK.				
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 19
SHEET 19 of 27
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TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT-○
LIQUID LIMIT —·—□
PLASTIC LIMIT ——△

SURFACE ELEVATION _____
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND				
4						
6		END OF HOLE @ 5.0' ON ROCK				
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
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TEST HOLE 20
SHEET 20 of 27
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TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT-○
LIQUID LIMIT ——□
PLASTIC LIMIT ——△

SURFACE ELEVATION 373.819
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND - FINE - moist @ 2' - MED				
4						
6		- FINE - SOME SILT AND CLAY - DENSE				
8		- FINE SAND - CLEAN 371.07				
10		END OF HOLE @ 9.0 ON ROCK				
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 21
SHEET 21 of 27
CHECKED ____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT — ·— □
PLASTIC LIMIT —— △

SURFACE ELEVATION 380.560
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SILT - GRAY - WITH CLAY - SAND LAYERS (FINE)				
4						
6		SILT - GRAY - SOME CLAY - SOME SAND - WET				
8						
10						
12		SILT - GRAY - DENSE - WITH SAND				
14						
16		END OF HOLE @ 16'				
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

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TEST HOLE 22
SHEET 22 of 27
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TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT — · — □
PLASTIC LIMIT —— △

SURFACE ELEVATION 380.560
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		SAND - FILL - DK BROWN - MED - ORGANIC SMELL				
4						
6		CLAY - GRAY - WITH SILT - TRACE SAND				
8						
10						
12		SILT - GREY - WITH TO SOME CLAY - SOME SAND				
14						
16		END OF HOLE @ 16'				
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

The UMA Group

PROJECT Milanese Subdivision Services
CLIENT Wabigoon Developments Ltd
JOB NUMBER 5362-001-01 DATE Nov 27/86

TEST HOLE 23
SHEET 23 of 27
CHECKED _____ DRAWN TB

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT - - - □
PLASTIC LIMIT —— △

SURFACE ELEVATION 386.102
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		GRANULAR SILT - GRAY - WITH CLAY - DRY				
4						
6		SILT - GRAY - SOME CLAY - TRACE LAYERS SAND				
8						
10		- SOFTER WITH DEPT				
12						
14						
16		END OF HOLE @ 16'				
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

The UMA Group

PROJECT Milanese Subdivision Services
CLIENT Wabigoon Developments Ltd.
JOB NUMBER 5362-001-01 DATE Nov 27/86

TEST HOLE 24
SHEET 24 of 27
CHECKED _____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT — · — □
PLASTIC LIMIT — △

SURFACE ELEVATION 386.58
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		GRANULAR SAND - MED - WET				
4		CLAY - GRAY - WITH SILT				
6		SILT - GRAY - WITH CLAY - SOFT				
8						
10						
12						
14						
16		END OF HOLE @ 16'				
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

The UMA Group

PROJECT MILANESE SUBDIVISION SERVICES
CLIENT WABIGOON DEVELOPMENTS LTD.
JOB NUMBER 5362-001-01 DATE NOV 27/86

TEST HOLE 25
SHEET 25 of 27
CHECKED _____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT —— □
PLASTIC LIMIT —— △

SURFACE ELEVATION 384.798
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
0		GRANULAR				
2		CLAY - GRAY				
4		- WITH SILT				
6		- SAND LENSES				
8		SILT - GRAY				
10		- WITH FINE SAND				
12		- CLEANER WITH DEPTH				
14						
16		END OF HOLE @ 16'				
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

The UMA Group

PROJECT MILANESE SUBDIVISION SERVICES
CLIENT WABIGOON DEVELOPMENTS LTD
JOB NUMBER 5362-001-01 DATE NOV 27/86

TEST HOLE 26
SHEET 26 of 27
CHECKED _____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT ——·—— □
PLASTIC LIMIT —— △

SURFACE ELEVATION 374.026
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		GRANULAR SILT - GRAY - FINE SAND				
4						
6		SAND - FINE				
8						
10		- MED MOIST				
12		END OF HOLE @ 12.5' ON ROCK				
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						

The UMA Group

PROJECT Milanese Subdivision Services
CLIENT Wabigoon Developments Ltd
JOB NUMBER 5362-00-01 DATE Nov 27/86

TEST HOLE 27
SHEET 27 of 27
CHECKED _____ DRAWN TH

TEST HOLE LOG & SUMMARY OF LABORATORY TESTS

MOISTURE CONTENT - ○
LIQUID LIMIT —— □
PLASTIC LIMIT —— △

SURFACE ELEVATION _____
CO-ORDINATES

DEPTH	SOIL PROFILE	SOIL DESCRIPTION	SAMPLE No. & Type	STANDARD PENETRATION (BLOWS/FT.)	COMPRESSIVE STRENGTH P.S.F	MISC. TESTS & REMARKS
2		Silty Sand - Layered - Wet to Damp				
4						
6						
8						
10						
12		End of Hole @ 11' on Rock.				
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						