

Brem- 147- 01.08.2015

THE BIRCHES

LONG RIDGE ROAD

CARLISLE, MA

RECEIVED
JAN 08 2015

TOWN CLERK-CARLISLE
CHARLENE M. HINTON

SOIL TESTING

BERKES – 1998

Submitted by:

MEISNER BREM CORPORATION

142 Littleton Road
Westford, MA 01886

Submitted to Peer Review:

December 16, 2014

feb 2290

2.005

N11° 56' - 50" E
590.99

LOT 32 L
87,590 SF
or
2.0108 AC

N00° 00' 00" W
150.00

LOT 33 K

100.7500

N50°

ROAD

PRSP
LINE

(40' WIDE)

TP 98-3
105
98.5
101

N39° - 10' - 00" W
290.00

LONG
RIDGE

NE

LOT 30 K

N/F
TSANDOULAS
2166/245

Test Location - PLAS
BY
STAMSKI & MENARY INC
80 HARRIS STREET
ACTON, MA 01720
978-263-8585

SOIL EVALUATOR:
GEORGE DIMAKAKIOS

TEST PITS DUG ON 2/4/98

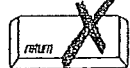
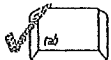
FOR: BERKES



Commonwealth of Massachusetts
City/Town of
Percolation Test
Form 12

Percolation test results must be submitted with the Soil Suitability Assessment for On-site Sewage Disposal. DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with the local Board of Health to determine the form they use.

Important:
When filling out
forms on the
computer, use
only the tab key
to move your
cursor - do not
use the return
key.



A. Site Information

TOM KILFOYLE
Owner Name
100 LONG RIDGE RD
Street Address or Lot #
CARLISLE MA 01741
City/Town State Zip Code

Contact Person (if different from Owner) Telephone Number

B. Test Results

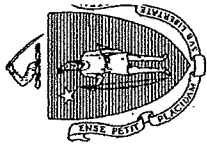
	Date	Time	Date	Time
Observation Hole #	<u>7/29/04</u>	<u>12:00</u>	<u>5A</u>	<u>3A</u>
Depth of Perc	<u>42</u>		<u>56</u>	
Start Pre-Soak	<u>12:08</u>		<u>1:34</u>	
End Pre-Soak	<u>12:08</u>		<u>UNABLE TO START</u>	
Time at 12"	<u>12:23</u>		<u>24 GALS IN 15 min</u>	
Time at 9"	<u>12:38</u>			
Time at 6"	<u>1:08</u>			
Time (9"-6")	<u>30</u>			
Rate (Min./Inch)	<u>10 MIN/IN</u>		<u>< 2 MIN/IN</u>	
Test Passed:	☒		Test Passed:	☒
Test Failed:	☐		Test Failed:	☐

STANSKI AND MCMANUS INC / JOSEPH MANICH P.E.
Test Performed By:

STAN JOSNICKI / CONCORD BOARD OF HEALTH
Witnessed By:

Comments:

PERC TESTS PERFORMED NEXT TO TEST
HOLES PERFORMED ON 2/4/98



Commonwealth of Massachusetts
City/Town of

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (Cont.)

Deep Observation Hole Number: 102

Date 10/5/05

Time 9:00 AM

Weather Clear 70°

1. Location

Ground Elevation at Surface of Hole _____

Location (Identify on Plan) _____

2. Land Use: WOODLAND
(e.g. woodland, agricultural field, vacant lot, etc.)

WOODED
Vegetation

Grass
Landform

Few
Surface Stones

0-3%
Slope (%)

Position on landscape (attach sheet)

3. Distances from: Open Water Body _____ feet

Drainage Way _____ feet

Possible Wet Area _____ feet

Property Line _____ feet

Drinking Water Well _____ feet

Other _____ feet

4. Parent Material: Glacial Till

Unsuitable Materials Present: Yes ☐ No ☒

If Yes: Disturbed Soil ☐ Fill Material ☐ Impervious Layer(s) ☐ Weathered/Fractured Rock ☐ Bedrock ☐

5. Groundwater Observed: Yes ☐ No ☒

If Yes: Depth Weeping from Pit 64"

Depth Standing Water in Hole 64"

Estimated Depth to High Groundwater: 32 inches

elevation

SENT TO BOH

FORM 11 - SOIL EVALUATOR FORM
Page 1 of 3

No. SM-588

Date: 5/4/98

Commonwealth of Massachusetts
CARLISLE, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: George Dimakarakos / STANSKI & MENARY INC Date: 2/4/98
Witnessed By: ROB FRADO

Location Address of Lot # LOT 32 L LONG RIDGE RD	Owner's Name, Address, and Telephone # Berkes Long Ridge Road Carlisle, MA 01741
New construction ☒ Repair ☐	

Site Review

Published Soil Survey Available: No ☒ Yes ☐

Soil Published Publication Scale Soil Map Unit

Change Class Soil Limitations

Official Geologic Report Available: No ☒ Yes ☐

Soil Published Publication Scale

Geologic Material (Map Unit)

Uniform

Flood Insurance Rate Map:

Over 500 year flood boundary: No ☐ Yes ☒

100 year flood boundary: No ☒ Yes ☐

100 year flood boundary: No ☒ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit)

Wetlands Conservancy Program Map (map unit)

Recent Water Resource Conditions (USGS): Month

Soil Above Normal ☐ Normal ☒ Below Normal ☐

References Reviewed:

RECEIVED

MAY 11 2005

BOARD OF HEALTH
CARLISLE

Upland

DECEMBER, 1997

Location Address or Lot No. LOT 322, LONG RIDGE RD

On-site Review

Deep Hole Number 98-1 Date: 3/4/98 Time: 9:15 Weather CLOUDY 30's
 Location (Identify on site plan) NEAR RD
 Land Use WOODS Slope (%) 3-5 Surface Stones 5%
 Vegetation WOODS
 Landform TERRACE
 Position on landscape (sketch on the back) ON SLOPE
 Distances from:
 Open Water Body _____ feet Drainage way _____ feet
 Possible Wet Area _____ feet Property Line _____ feet
 Drinking Water Well _____ feet Other _____

DEEP OBSERVATION HOLE LOG*					
Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8"	A	SANDY LOAM	10YR3/3		MASSIVE, FRIABLE
8"-20"	B	SANDY LOAM	7.5YR5/6		MASSIVE, FRIABLE
20"-84"	C ₁	LOAMY SAND	2.5Y5/4 7.5YR5/8	MEDIUM COMAGIN HIGH LOW CHROMA @ 36"	VERY FRIABLE SINGLE GRAIN. 10% GRAVEL LOAMY FINE-MEDIUM SANDS
84"-108"	C ₂	SANDY LOAM	2.5Y5/4		VERY FRIABLE 10% GRAVEL

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) ICE CONTACT Depth to Bedrock: 108" CAVE IN. NO LOG.
 Depth to Groundwater: 5'6" Standing Water in the Hole: 4'
 Estimated Seasonal High Ground Water: 2'6" Weeping from Pit Face: 4'

4/28/98 @ 70" JLM (W/ BOH)

OBSERVATION PIPE INSTALLED



Location Address or Lot No. LOT 32L, LONG RIDGE ROAD

On-site Review

Deep Hole Number 98-2 Date: 4/4/98 Time: 9:45 Weather CLOUDY
Location (identify on site plan) _____
Land Use WOODS Slope (%) 5-8 Surface Stones 5-8
Vegetation WOODS
Landform _____
Position on landscape (sketch on the back) ON ESCAPE
Distances from:

Open Water Body _____ feet Drainage way _____ feet
Possible Wet Area _____ feet Property Line _____ feet
Drinking Water Well _____ feet Other _____

DEEP OBSERVATION HOLE LOG*					
Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-6"	A	SANDY LOAM	10YR 2/2		MASSIVE, FRIABLE
6"-24"	B	SANDY LOAM	10YR 5/6	FINE-MED COMMON HIGH % CLAY CEMENT @ 24"	MASSIVE, FRIABLE
24"-10'	C	SANDY LOAM	2.5Y 5/4		ANGULAR BLOCKY SOMEWHAT FIRM

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) TILL Depth to Bedrock: _____
Depth to Groundwater: Standing Water in the Hole: 10' Weeping from Pit Face: 24"
Estimated Seasonal High Ground Water: 24"



Location Address or Lot No. LOT 326, LONG RIDGE ROAD**On-site Review**Deep Hole Number 98-3 Date: 2/4/98 Time: 10:15 Weather CLOUDY 30's

Location (identify on site plan) _____

Land Use WOODS

Slope (%) _____

Surface Stones _____

Vegetation WOODS

Landform _____

Position on landscape (sketch on the back) ON SLOPE

Distances from:

Open Water Body _____ feet Drainage way _____ feet

Possible Wet Area _____ feet Property Line _____ feet

Drinking Water Well _____ feet Other _____

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-6"	A	SANDY LOAM	10YR2/3		MASSIVE, FRIABLE
6"-24"	B	SANDY LOAM	7.5YR5/6		MASSIVE, FRIABLE
24"-46"	C ₁	LOAMY SAND	2.5Y5/4	Common MED-FINE SILT + LOSS CHLORIDE @ 24"	VERY FRIABLE SINGLE GRAIN 10% GRAVEL
46"-10'	C ₂	SANDY LOAM	2.5Y5/4		MASSIVE, FRIABLE 10% GRAVEL

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

 Parent Material (geologic) TILL Depth to Bedrock: _____
 Depth to Groundwater: _____ Standing Water in the Hole: 6'0" Weeping from Pit Face: 2'0"
 Estimated Seasonal High Ground Water: 24"
4/28/98 @ 51" JUN (W/BOH)

DEP APPROVED FORM - 12/07/95

OBSERVATION
PIPE
INSTALLED

Location Address or Lot No. 6732L, LONG RIDGE RDOn-site ReviewDeep Hole Number 98-4 Date: 2/4/98 Time: 10:30 Weather

Location (identify on site plan)

Land Use WOODS Slope (%) 5-8 Surface Stones 5%Vegetation WOODS

Landform

Position on landscape (sketch on the back) ON SLOPE

Distances from:

Open Water Body feet Drainage way feet

Possible Wet Area feet Property Line feet

Drinking Water Well feet Other

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-6"	A	SANDY LOAM	10YR2/2		MASSIVE, FRIABLE
6"-24"	B	SANDY LOAM	10YR5/6		MASSIVE, FRIABLE
24"-10'	C	SANDY LOAM	2.5Y5/4	COMPACT HIGHLY LOW CHROMA @ 24"	MASSIVE, FRIABLE

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) TILL Depth to Bedrock:Depth to Groundwater: Standing Water in the Hole: 18' Weeping from Pit Face: 3'Estimated Seasonal High Ground Water: 24"4/08/98 @ 33" JLM (w/BOH)

DEP APPROVED FORM - 12/07/95

OBSERVATION
PIPE
INSTALLED

Location Address or Lot No. 107 32L / LONG RIDGE RD**On-site Review**Deep Hole Number 98-5 Date: 2/4/98 Time: 11:00 Weather CLOUDY 30's

Location (identify on site plan)

Land Use WOODS Slope (%) 5-8 Surface Stones 5-8Vegetation WOODS

Landform

Position on landscape (sketch on the back) ON SLOPE

Distances from:

Open Water Body feet Drainage way feet

Possible Wet Area feet Property Line feet

Drinking Water Well ± 180 feet Other**DEEP OBSERVATION HOLE LOG***

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-6"	A	SANDY LOAM	10YR2/2		MASSIVE, FRIABLE
6"-24"	B	SANDY LOAM	10YR5/6	COMMON MED DISTINCT @ 24"	MASSIVE, FRIABLE
24"-10'	C	SANDY LOAM	2.5Y 5/4	HIGH + LOW CHROMA	MASSIVE, FRIABLE 10% GRAVEL 2% STONES

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) TILL Depth to Bedrock: _____Depth to Groundwater: Standing Water in the Hole: 10' Weeping from Pit Face: 3'6"Estimated Seasonal High Ground Water: 28"4/28/98 @ 29" JUM (w/ BDN)

DEP APPROVED FORM - 12/07/95

OBSERVATION
PRE INSTALLED

Location Address or Lot No. LOT 32 L 1 LONG RIDGE RD

Determination for Seasonal High Water Table

Method Used:

- ☐ Depth observed standing in observation hole Inches
☐ Depth weeping from side of observation hole Inches
☒ Depth to soil mottles Inches
☐ Ground water adjustment feet

Index Well Number Reading Date Index well level

Adjustment factor Adjusted ground water level

Depth of Naturally Occurring Pervious Material

Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? *

If not, what is the depth of naturally occurring pervious material?

Certification

* NO PERCS YET

I certify that on 7/26/95 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 810 CMR 16.017.

Signature George Jankowski Date 2/4/98
STAMSKI & McNARY INC.

