

A/P 555737

60087

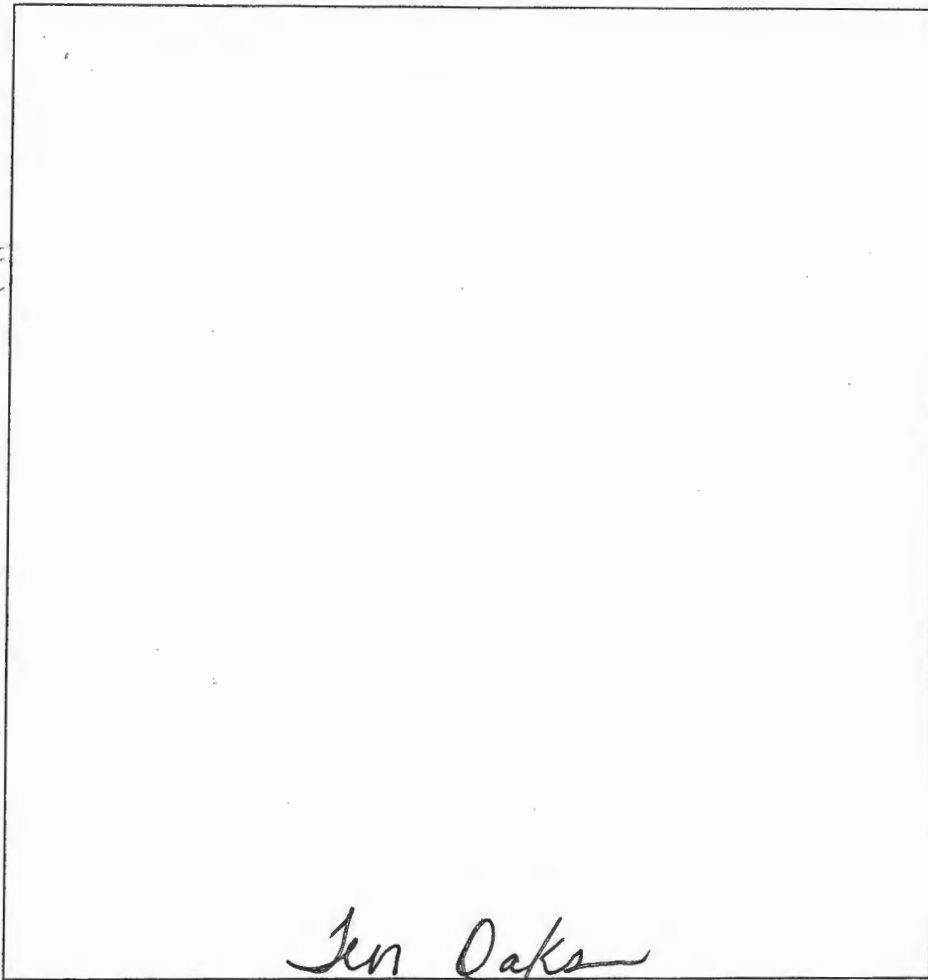
Red Brown
yellow
Sh
4.5
Red Brown
yellow
Sh
many
mud
5-10%
R4
↓
15

60107

Red Brown
yellow
Sh
3.5
Red Brown
yellow
Sh
5-10%
Shale
many
mud
↓
14

6009

Red Brown
yellow
Sh
3.5
Red Brown
yellow
Sh
many
mud
5-10%
R4
↓
13.5



Jen Oaks

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5-6-15	6008	4.5 / 7.5	10:13	10:17	10:21	4	P
5-6-15	6008	4.5 / 14	10:15	10:19	10:22	3	P
5-6-15	6009	4.5 / 13.5	10:22	10:24	10:27	3	P
5-6-15	6010	4 / 13.0	10:29	10:30	10:31	—	P
	Repair		10:32	10:34	10:36	2	P
5-6-15	6013	4 / 13.5	10:40	10:42	10:43	—	P
	Repair		10:42	10:46	10:49	3min	P
5-6-15	6012	3.0 / 10	10:50	10:58	11:08	11min	P
	4 marginal						

#6010
Red Brown
yellow
Sh
3
Red Brown
yellow
FSH
many
mud
↓
13

#6013
Red Brown
Sh
many
mud
3
Red Brown
yellow
FSH
many
mud
H2O in
the bottom
13.5

#6012
Red Brown
yellow
Sh
2.5
Red Brown
yellow
FSH
mud deposits
H2O in
the bottom
@ T ↓
10

REMARKS _____
SANITARIAN Revised BACKHOE _____ OTHERS _____
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

5405

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, October 26, 2021 2:14 PM
To: Tony Fertitta (tonyf@fcc-eng.com)
Subject: OSDS Plan_5018 Ten Oaks Road

Hi Tony:

The ODSP Plan for 5018 Ten Oaks Road (Lot 5) has been reviewed with the following comments:

- 1.) D = 4.5 ft. in the calculations (not 3.5 ft.).
- 2.) Trench spacing = 12 ft. (not 10 ft.)
- 3.) Show emergency storage calculation on plan. 1500 gallon tank may not be adequate for a 6 bedroom residence.
- 4.) Septic profile shows greater than 3 feet of cover over tanks.
- 5.) 150 gallon dose is the minimum. What is 125 gallon minimum shown on plan?
- 6.) Run force main around SDA to avoid damaging it during future repairs.
- 7.) *Trench data* elevation has trench #1 invert at 3.4 feet.
- 8.) *Trench detail* has both 5.5 ft. and 4.5 ft. alongside it. It should be just 4.5 feet below trench invert.

Let me know if you have any questions.

Thanks,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Well & Septic Program
410.313.1786
hoswald@howardcountymd.gov

CAIP# 555737

HOWARD COUNTY PERC TEST REPORT

Lot # _____

Hole # 7

Red Brown
yellow
sl 3'

Red Brown
yellow
sh
10-20%
R4
H20@H 14.5'

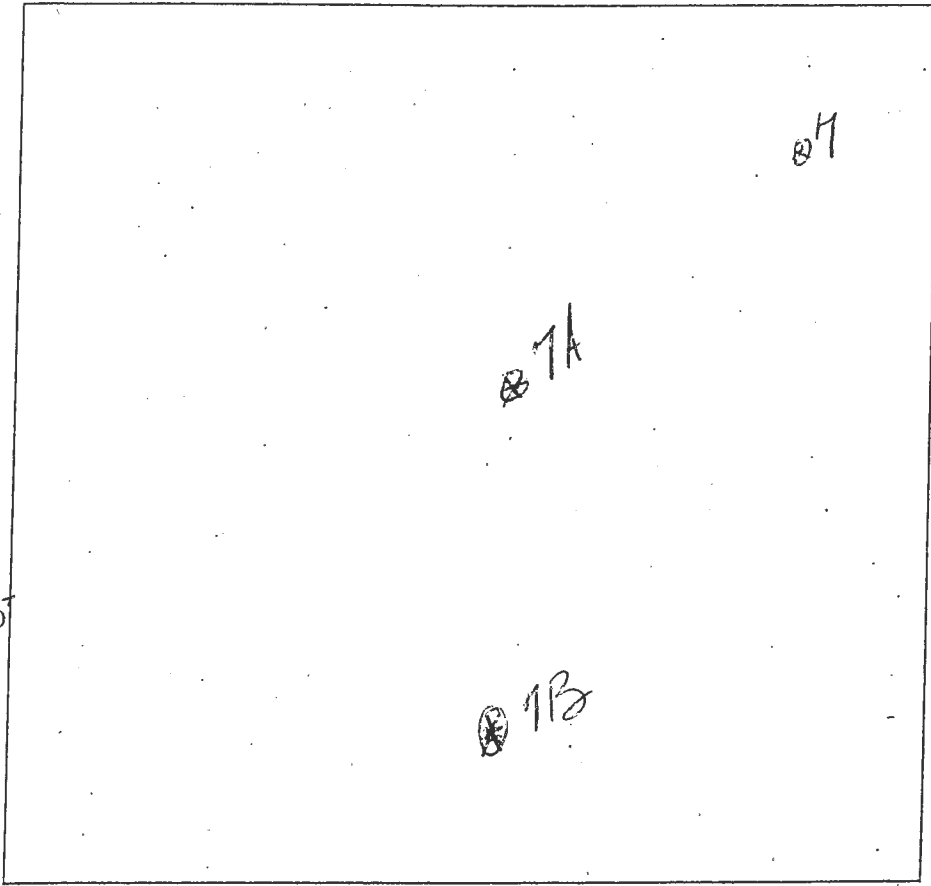
Hole # 7A

Red Brown
sl
many mica 3.5'

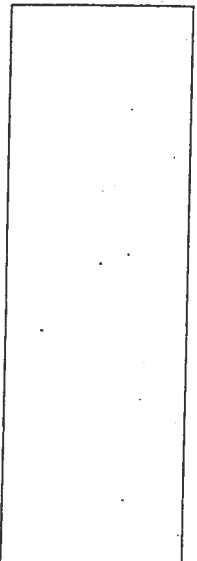
Red Brown
yellow
sh
many mica
5-10%
sl 14.9'

Hole # 7B

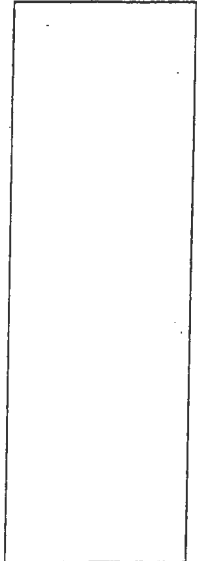
Red Brown
yellow
sl 3'
Red Brown
yellow
sh
many mica
H20@H
the better 7'



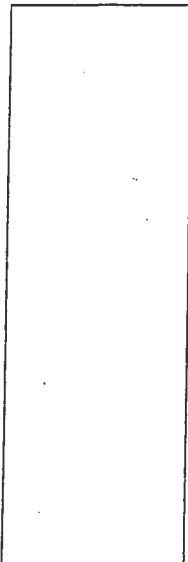
Hole #



Hole #



Hole #



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4-15-15	7	5.4/4.5	10:57	11:00	11:05	5min	P
4-16-15	7A	5.5/4.9	11:08	11:12	11:15	3min	P
4-16-15	7B	4.9	11:18	11:19	11:21	3min	P 10' Buffer

REMARKS Two extra holes done.

SANITARIAN _____ BACKHOE _____

OTHERS _____ SQ. FT/BR _____

TEST HOLES USED IN SDA _____ AVG PERC TIME _____

TRENCH WIDTH _____ INLET DEPTH _____

MAX BOT DEPTH _____ EFFECTIVE SDW _____



Bureau of Environmental Health

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Maura J. Rossman, M.D., Health Officer

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: _____

Subdivision: Ten Oaks Farm Lot: 5

Initial system: Application rate: 1.2 Effective area beginning depth: 3.5' Bottom maximum depth: 8'
 1st Replacement: Application rate: 1.2 Effective area beginning depth: 3.5' Bottom maximum depth: 8'
 2nd Replacement: Application rate: 1.2 Effective area beginning depth: 3.5' Bottom maximum depth: 8'

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D + W up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

Approved: Hank Oswald Date: 4/3/17

6008

6058A

5007A

6009

5007

6010

