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**HOWARD COUNTY HEALTH DEPARTMENT**

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*Joyce M. Boyd, M.D., County Health Officer*

May 8, 1996

Ms. Victoria Waller  
11661 Frederick Road  
Ellicott City, MD 21042

RE: Percolation Certification Plan Review  
A50516 Retest  
Recorded Lot  
Palmer Property  
Tax Map 3, Parcel 284

Dear Ms. Waller,

After careful review of the above-referenced plan, it is the finding of this office that site conditions are not sufficient for conventional septic system installation. However, all options for alternate design options have not been exhausted.

There is some potential for approval of a non-conventional septic system design. For a complete discussion of the possibilities, it is suggested that you schedule an appointment for a review conference. Before committing to further evaluations, it would seem more practical to develop a mutually agreeable plan of action.

Yours truly,

Craig Williams, R.S.  
Water and Sewerage Program

MR  
cc: A.L.S., Inc.  
File

f:\wp51\palmer3

TEST DATA

NAME <u>Waller Property</u>	FILE NO <u>A505/6</u>
LOCATION <u>S/S Route 144 about 1/2 mi E of</u>	COUNTY <u>Howard</u>
<u>Morgan Station Rd.</u>	DATE <u>5/31/96</u>
RECORDED BY <u>started by R.P.; cont'd by MR</u>	GRID _____ E
	N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
A	I <sub>1</sub>	11-16" RP	(10:59:40)		7" even	Low hole (only 130 ft from stream)  avg 67 min/inch
			(11:22:00)		6 5/8	
			11:38		6 3/32 > 17/32	
			12:10	32	5 25/32 > 10/32	
			12:34	24	5 3/8 > 13/32	
			12:56	22	5" > 12/32	
			1:18	22	4 23/32 > 9/32	
			1:41	23		
			END			
			B	I <sub>2</sub>	16-21"	
12:24	22	6 14/32 > 2 1/32				
12:46	22	5 25/32 > 19/32				
1:08	22	5 6/32 > 29/32				
1:31	23	4 18/32 > 20/32				
1:53	22	3 30/32 > 20/32				
END						
C	I <sub>3</sub>	10"-17"	12:41		7" even	119 min/inch
			1:03	22	6 26/32 > 6/32	
			1:25	22	6 20/32 > 6/32	
			1:48	23	6 14/32 > 6/32	
			2:10	22	6 8/32 > 6/32	
			END			

Waller Property 5/31/96 RP/MR

Test Hole B

0-8/11" dk red brn silty m - str brn 3/4 green - 3/4 silt  
Moist - v. Moist  
common F - v roots, pores, etc

11"-26" red br silty m

26"-60" yel br sticky  
silty m

Test Hole C

8"	dk brn silty m
	red brn
23"	silty m
	yel
	brn sticky
	sa silty m
	w/ sm vein of
	sticky wh/ bge
4 1/2'	sa silty @ 2 1/2' - 4'
5'	mottled brn
6 1/2'	yel gr silty m

Test Hole B

8-11"	dk red brn
	str brn per RP
	silty m
	red brn
26"	silty m
	yel br sticky
	sticky wh.
	silty beige
	lm gr
4'	damp
	sa silty
6'	

Test Hole D

3 1/2'	brn red
	silty m
	mottled?
	yel brn
	silty m
7'	H <sub>2</sub> O

Test Hole E

1 1/2'	brn silty m
2 1/2'	wh beige mottled?
	sa silty
3'	yel brn
	silty m
	H <sub>2</sub> O seeping
	@ 3 1/2'
6 1/2'	WATER

TEST DATA

NAME	Waller Prop	FILE NO	A50516
LOCATION	S/S Rt. 144 1/2 mi E of Morgan Sta. Rd	COUNTY	Howard
		DATE	5/31/96
		GRID	
RECORDED BY	MR		

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
D	I <sub>4</sub>	9-14 1/2"	2:02		7" even	
			2:25	23	6 23/32" > 9/32	
			2:47	22	6 17/32" > 6/32	
			3:10	23	6 13/32" > 7/32	
			3:30	20	6 7/32" > 6/32	
			3:50	20	6 1/32" > 6/32	
					111 min/inch	
E	I <sub>5</sub>	12-18 1/2"	2:04		7" even	
			2:27	23	6 5/8" > 12/32	
			2:49	22	6 13/32" > 7/32	
			3:14	25	6 5/32" > 8/32	
			END	TOO	SLOW	
					87 min/inch	

SOIL DESCRIPTION

NAME Waller COUNTY Howard FILE NO A50516  
 SOIL MAP UNIT Chester MAP SYMBOL Ch B<sub>2</sub> DATE 5/30/96  
 GEOLOGIC MATERIAL Quartz ELEVATION \_\_\_\_\_ GRID NO \_\_\_\_\_ E  
 NO. A DESCRIBED BY R/J Pinkley \_\_\_\_\_ N

*Site only 130 ft from a small stream bed*

Horizon	Depth in.	Color		Texture	Structure		% Rock Fragments	Notes (Moisture, Density, Biopores, Seepage)	
		Matrix	Mottles		Grade	Type			
	0-6"	dark yel brn 10YR 4/6	—	LSIL	P- uf	gran sbk	NA	Moist	mfr
	6-17 1/2"	Red Brn yel Red 5YR 5/6 7/8	—	LSIL-SCL	2m	sbk	← 5%	Moist	mfi-mfr
	22-42"	Red-Red Brn 5YR-2.5YR	Mix E Some yel -yel Brn	LSIL-CL	2m	sbk	↓	Moist	fm fi-mfr
	42"-4 1/2'	Red 2.5YR to R 5/8	Mix yel + yel Brn	FSCL- FSL	1m to Massive	sbk	↓	Moist	mfr
	4 1/2'-5 1/2'	Red (10R 4/8)	m-clid thin ( <sup>3mm</sup> ) long (1cm long) grey 7.5YR 5/6	FHSL -FSL	Massive		Trace	Moist	mfr
	5 1/2'-5 3/4'	Red/yel Brn Mix	c1 P yel R c1 P grey (7.5YR 7/1-6/1)	FSCL -FSL	1m to Massive	sbk	Trace	Moist	mfr
	5 3/4'-6 1/2'	Mix Red Brn/yel Brn grey (7/1-5/1) Neutral Brn (10YR 5/3)	m 2d clid c1-2d Matrix	hottles FSL	Massive		Trace	Moist-Very Moist	mfr-mv fr
	10 1/2'	H <sub>2</sub> O							

LANDSCAPE

Position

Summit \_\_\_\_\_ Depression \_\_\_\_\_  
 Shoulder \_\_\_\_\_ Upland   
 Sideslope \_\_\_\_\_ Terrace \_\_\_\_\_  
 Footslope \_\_\_\_\_ Floodplain \_\_\_\_\_

Slope

Percent \_\_\_\_\_  
 Shape \_\_\_\_\_

SOIL DRAINAGE CLASS

ED \_\_\_\_\_ MWD  PD \_\_\_\_\_  
 WD \_\_\_\_\_ SPD \_\_\_\_\_ VPD \_\_\_\_\_

WATER TABLE

Est 4 1/2'-5 1/2' Seasonal  
 High based on soil colors  
 only

LIMITING ZONE

Soil Mottles indicate Seasonal  
 High water table at 4 1/2'-5 1/2'

SOIL CLASSIFICATION

# APPLICATION

PERCOLATION TESTING

A \_\_\_\_\_

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2640

DISTRICT \_\_\_\_\_

DATE \_\_\_\_\_

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

AGENT OR PROSPECTIVE BUYER \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY LOCATION:

SUBDIVISION Waller Prop LOT NO. \_\_\_\_\_

ROAD AND DESCRIPTION Fred. Rd

TAX MAP \_\_\_\_\_ PARCEL # \_\_\_\_\_

SIZE OF LOT \_\_\_\_\_ TYPE BLDG. \_\_\_\_\_  
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

(SIGNATURE OF APPLICANT)

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

DISAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

# THIS IS NOT A PERMIT

COUNTY #

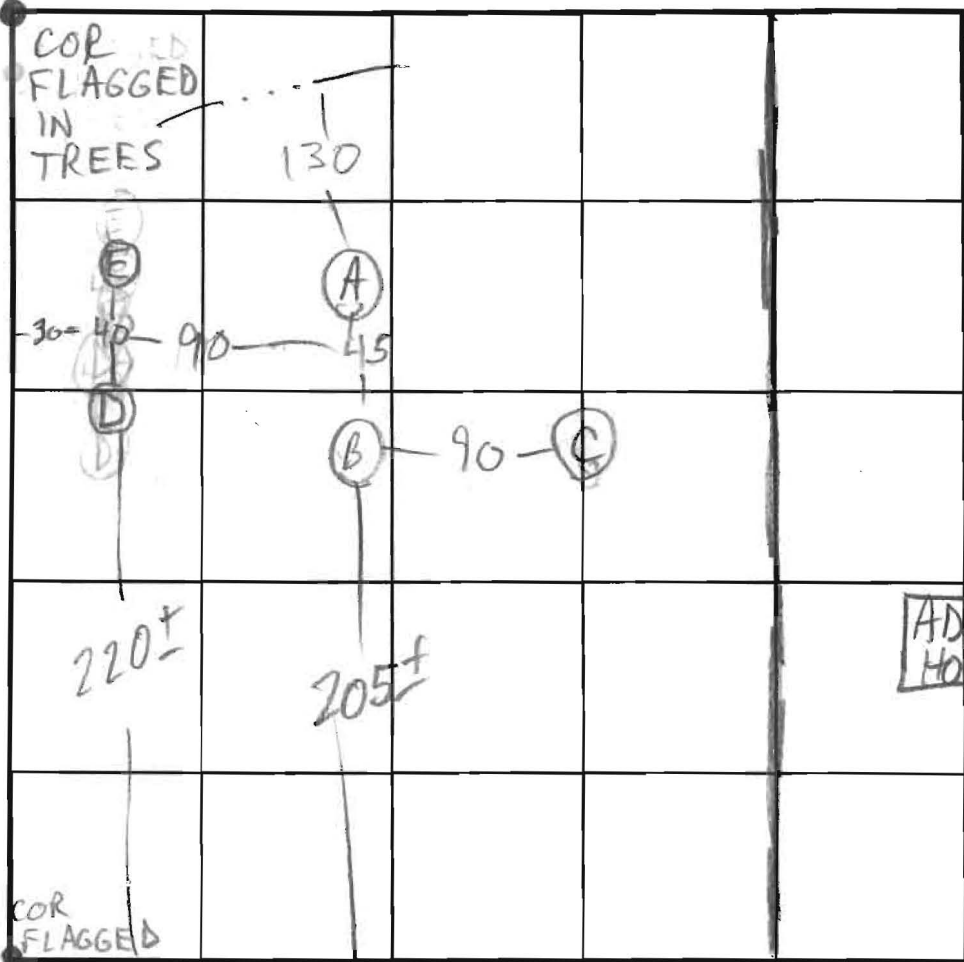
SOIL PROFILE

0'

Empty rectangular box for soil profile notes.

Empty rectangular box for soil profile notes.

Empty rectangular box for soil profile notes.



SOIL PROFILE

0'

Empty rectangular box for soil profile notes.

RT. 144 INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5/31/96	SEE	SAND MOUND	TEST DATA SHEETS				

REMARKS \_\_\_\_\_

TYPE OF SOIL \_\_\_\_\_

TESTED BY \_\_\_\_\_ ALSO PRESENT \_\_\_\_\_

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_

INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT./BEDROOM \_\_\_\_\_



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HOWARD COUNTY HEALTH DEPARTMENT

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*Joyce M. Boyd, M.D., County Health Officer*

February 13, 1995

Ms. Victoria Lynn (Palmer) Waller  
11661 Frederick Road  
Ellicott City, MD 21043

RE: **PERCOLATION TESTING**  
Palmer Property  
Receipt #A50516  
Tax Map 8, Parcel 284  
5 Acre Vacant Lot  
15217 Frederick Road

Dear Ms. Waller:

A percolation test date has been reserved for 10:00 a.m. Friday March 24, 1995.

You will be responsible for having a contractor on-site to excavate test holes at the corners of proposed percolation area.

Please call this office between 8:30 a.m. and 4:30 p.m., Monday through Friday, to confirm your acceptance of this percolation test date.

Thank you for your cooperation in this matter.

Very truly yours,

Craig Williams, Program Director  
Water and Sewerage Program

CW:vr

cc: File



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HOWARD COUNTY HEALTH DEPARTMENT

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Joyce M. Boyd, M.D., County Health Officer

March 7, 1996

Ms. Victoria Waller  
11661 Frederick Road  
Ellicott City, MD 21042

RE: Percolation Test Results  
A50516 Retest  
Recorded Lot  
Palmer Property  
Tax Map 8, Parcel 284

Dear Ms. Waller,

Percolation testing was conducted February 26, 1996 on the above referenced property. Copies of the percolation test results are enclosed. Although successful percolation times were encountered in four test locations, prospects for approval are uncertain due to shallow depth to groundwater and/or groundwater mottling.

Further review is contingent upon submission of a percolation certification plat showing actual locations and elevations of all excavated test holes and a suitable house and well site. The plat should also include the location of all existing wells and septic systems on the property as well as the location of any other relevant features such as streams, swales, or existing structures. A note must be included certifying that all wells and septic systems within 100 feet of property boundaries have been shown.

This should be submitted within sixty (60) to allow field verification if necessary. Timely submittal is important because there is some concern about the accuracy of test hole locations on the previous submission due to the time elapsed between testing and surveying. If you have any questions regarding this matter, please contact me at the above address or call me at 313-2640.

Very truly yours,

*Mark E. Rifkin*

Mark Rifkin, R.S.  
Water and Sewerage Program

MR

cc: Tax Assessment Office  
A.L.S., Inc.  
File

f:\wp51\palmer2



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## HOWARD COUNTY HEALTH DEPARTMENT

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*Joyce M. Boyd, M.D., County Health Officer*

September 3, 1998

Ms. Victoria Palmer  
11661 Frederick Road  
Ellicott City, MD 21042

RE: Sand Mound Testing  
A50516 Retest  
Palmer Property  
Tax Map 8, Parcel 284

Dear Ms. Palmer:

Percolation testing conducted on May 31, 1996 on the above referenced property indicated satisfactory soil conditions for sand mounds. Copies of the test results and preliminary test locations are enclosed. However, no confirming documentation was subsequently submitted.

Recently you inquired as to the status of the project and informed this office of your intent to proceed as planned.

Further review is contingent upon submission by a registered engineer or surveyor of a percolation certification plan showing actual locations and elevations of all excavated test holes and a suitable house and well site. The plat should also include the locations of all existing wells and septic systems on the property as well as the locations of any other relevant features such as streams, swales, or existing structures. A note must be included certifying that all existing wells and septic systems within 100 feet of property boundaries have been shown.

This plat should also depict the properly oriented footprint of each proposed sand mound in an initial installation and at least one replacement mound. The mounds should be depicted for installation on contour with 20' spacing around the perimeter of each. A generic sand mound cross-section would also be helpful. Approximate sand mound dimensions calculated by this office for a three bedroom house are also enclosed. Your engineer should confirm these data and contact us regarding specific language to be included at selective points in the plan.

You should also be advised that this plat should be recorded in the land records of Howard County.

If you have any questions regarding this matter, please feel free to contact me at the above address or by calling (410) 313-2640.

Very truly yours,  
*Mark E. Rifkin*  
Mark E. Rifkin, R.S.  
Water and Sewerage Program

*9/3/98 ADVISED Ms. Palmer  
of no conclusion in  
recording/MBE approval  
ISSUES.  
MR*

MR  
Enclosures  
cc: A.L.S., Inc.  
File