



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_ AVP 5 27934

AGENCY REVIEW: \_\_\_\_\_ DATE 12/4/07

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 3 in house PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) JOE & Mary Cawby

DAYTIME PHONE 410-552-5543 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 2032 Sherryl Ave EIDERSBURG MD 21784  
STREET CITY/TOWN STATE ZIP

APPLICANT JOHN SERRA

DAYTIME PHONE 443-277-7940 CELL \_\_\_\_\_ FAX 410-755-9121

MAILING ADDRESS 4190 Jefferson Ave Sykesville MD 21784  
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME INDIAN HILL LOT NO. 39

PROPERTY ADDRESS 12590 Indian Hill Sykesville 21784  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 9 GRID H PARCEL(S) 127 lot 39 PROPOSED LOT SIZE 1.5 ACRES

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.

  
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-1771 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

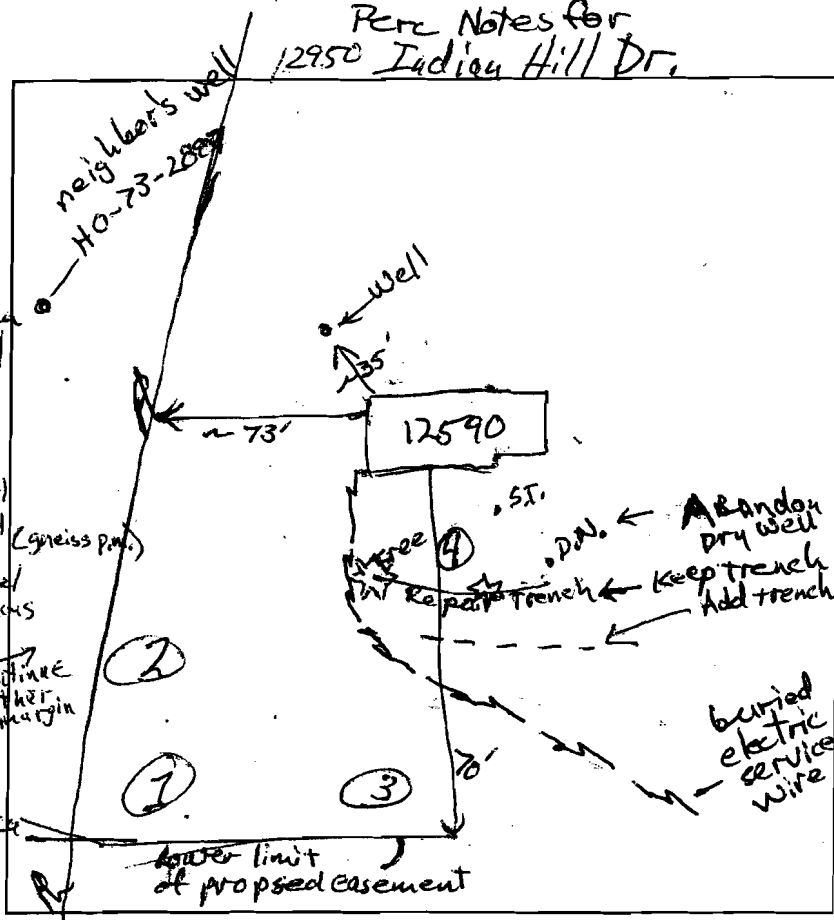
Perc Notes for 12950 Indian Hill Dr.

AP 527934

#1  
 0.5' dk. brn scl  
 1' lg & v f sbk  
 red-brn scl  
 2 m sbk  
 common mica  
 3' pale red-brn grs sl  
 7 f sbk  
 micaceous  
 C2d (grey)  
 heavy-to-light sl  
 5.0' lt. grey brn sl  
 (gneiss pm.)  
 6.8' 2m, f2d grey  
 C1P red-yl  
 tan sl, micaceous  
 Saprolite  
 7.5'

#2  
 6" dk brn scl  
 2 f sbk  
 red-brn scl  
 2 m sbk, ss  
 14" red-brn scl  
 1 m sbk, ss  
 23" red-brn scl  
 1 m sbk,  
 40" pale red & tan  
 & lt. grey brn sl  
 micaceous  
 saprolite  
 46" C2d depletions  
 H. olive grey  
 micaceous  
 saprolite

(gneiss pm.)  
 96" red-yl enrichments  
 1' m sbk  
 1' m sbk  
 micaceous  
 saprolite  
 160" (14') no redox  
 red brn & grey sl  
 blocky  
 Saprolite  
 192" (16') moist



#1 cont.  
 brn sl  
 micaceous  
 Saprolite 14'  
 lt. med. brn sl  
 & lt. grey  
 w/ black inclusions  
 blocky, parts  
 to 2 upl  
 Saprolite  
 (gneiss pm)  
 micaceous  
 moist 16'

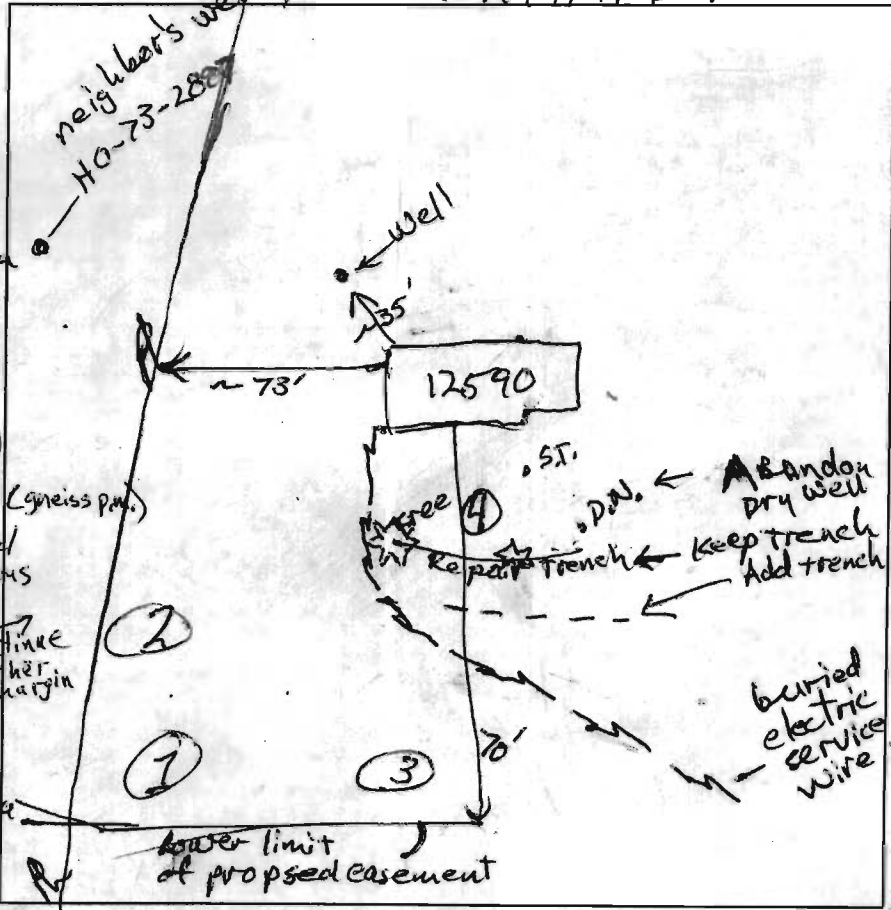
#3  
 0.5' dk brn scl  
 brn scl  
 1 m sbk  
 3.5' lt. brn red sl  
 2m, 20% quartz  
 (green at 7')  
 10' brn sl  
 micaceous  
 20% blocky  
 gneiss  
 Saprolite  
 H. brn, red-brn  
 & lt. grey  
 w/ black  
 15' dk brn scl  
 0.5' brn scl, 1 m sbk  
 1.6' red-brn sl (heavy)  
 2m, saprolite  
 micaceous  
 5' brn sl  
 micaceous  
 12' pale red, tan & brn  
 fine lt. grey & blk lithochromes  
 heavy sl  
 14' dense

| DATE     | TEST # | DEPTH     | START            | BREAK 1" DROP  | STOP 2" DROP | TIME OF 2ND INCH | PF/H |
|----------|--------|-----------|------------------|----------------|--------------|------------------|------|
| 12/14/07 | 2      | 83' (163) | 0                | 5.5            | 15.5         | 10               | P    |
| 12/14/07 | 1      | 7' 14"    | 0                | 3              | 12           | 8                | F    |
| 12/14/07 | 3      | 15'       | Visual, sidewall | 3.5' to bottom |              |                  | P    |
| 12/14/07 | 4      | 6' 12"    | 0                | 17+            | pulled       |                  | F    |
| 12/14/07 | 4      | 2.2' 12"  | 0                | 6              | 18           | 12               | P    |

REMARKS  
 SANITARIAN RB BACKHOE Jake OTHERS John Serra  
 TEST HOLES USED IN SDA 1, 2, 3 & 4 AVG. PERC TIME 10 SQ. FT/BR 1875  
 TRENCH WIDTH 2 INLET DEPTH 4 to 5 MAX. BOT DEPTH 10 EFFECTIVE SW 3

Perce Notes for  
12950 Indian Hill Dr.

AP 527934



#1  
0.5' dk. brn scl  
fg & vfsbk  
red-brn scl  
2msbk  
common mica  
3' pale red-brn grsl  
7fsbk  
micaceous  
C2d (grey)  
heavy-to-light sl  
5.0' lt. grey brn sl  
6m, f2d grey  
tan, C1P red-yl  
7.5' tan sl, micaceous  
Saprolite

#2  
6" dk brn scl  
2fsbk  
14" red-brn scl  
2msbk, ss  
23" red-brn scl  
1msbk, ss  
40" pale red & tan  
& lt. grey brn sl  
micaceous  
saprolite  
66" C2d depletions  
lt. olive grey  
micaceous  
saprolite  
96" (gneiss p.m.)  
red-yl enrichments  
pale red, tan &  
brn sl  
micaceous  
saprolite  
168" (14')  
red-brn & grey sl  
blocky  
saprolite  
192" (16')  
moist

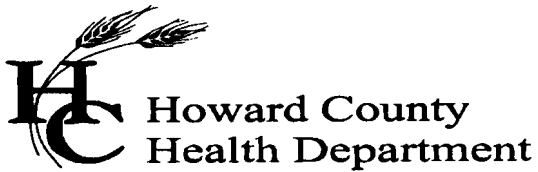
#1 cont.  
14'  
brn sl  
micaceous  
saprolite  
16'  
lt. med-brn sl  
& lt. grey  
w/ black inclusions  
blocky, parts  
to 2 vfl  
saprolite  
(gneiss pm)  
micaceous  
moist

#3  
0.5' dk brn scl  
brn scl  
1msbk  
3.5' lt. brn med sl  
6m, 20% quartz  
(rem at 7')  
10' brn sl  
micaceous  
20% blocky  
gneiss  
saprolite  
15' lt. brn, red-brn  
& lt. grey  
w/ black  
#4  
0.5' dk brn scl  
brn scl, 1msbk  
1.6' red-brn sl (heavy)  
6m, saprolite  
micaceous  
5' brn sl  
micaceous  
12' pale red, tan & brn  
fine lt. grey blk lithocrauses  
heavy sl  
14' dense

minutes

| DATE     | TEST # | DEPTH                       | START            | BREAK<br>1" DROP | STOP<br>2" DROP | TIME OF<br>2ND INCH | P/F/H |
|----------|--------|-----------------------------|------------------|------------------|-----------------|---------------------|-------|
| 12/14/07 | 2      | 83' <sup>(13)</sup><br>168" | 0                | 5.5              | 15.5            | 10                  | P     |
| 12/14/07 | 1      | 7' <sup>14</sup>            | 0                | 3                | 12              | 8                   | P     |
| 12/14/07 | 3      | 15'                         | Visual, sidewall |                  | 3.5' to bottom  |                     | P     |
| 12/14/07 | 4      | 6' <sup>12</sup>            | 0                | 17+              | pulled          |                     | F     |
| 12/14/07 | 4      | 22' <sup>12</sup>           | 0                | 6                | 18              | 12                  | P     |

REMARKS \_\_\_\_\_  
 SANITARIAN RB BACKHOE Jake OTHERS John Serra  
 TEST HOLES USED IN SDA 1, 2, 3 & 4 AVG. PERC TIME 10 SQ. FT/BR 1875  
 TRENCH WIDTH 2 INLET DEPTH 4 to 5 MAX. BOT DEPTH 10 EFFECTIVE SW 3



Howard County  
Health Department

Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia MD 21046  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-899-313-6300  
website: [www.hchealth.org](http://www.hchealth.org)

PETER BEILENSON, M.D., M.P.H., Health Officer

December 27, 2007

John Serra  
4190 Jefferson Ave.  
Sykesville, Maryland 21784

RE: PERCOLATION TEST RESULTS, 12590 Indian Hill Drive, A-527934

Dear Mr. Serra,

Percolation testing was conducted on the subject property on December 14, 2007. Field data collected are shown on the Percolation Test Worksheet enclosed with this letter. Percolation Test Results from locations numbered '1', '2', '3' and '4' indicate soils' conditions that are satisfactory for onsite wastewater disposal. Recommended Inlet and Trench Bottom depths, and Usable Sidewall are determined for both initial system and repair systems and maintained in the Health-Department file for the subject property (by address).

As recorded in the Maryland Department of Assessments and Taxation real property database, the area of enclosed floor space in the residence at 12590 Indian Hill Drive is currently 2665 square feet. Howard County Code requires septic tank capacity of 1500 gallons for a residence having 1500 to 3500 sq. ft. enclosed floor space. The existing septic tank was installed for the residence in about 1973. The septic tank capacity is believed to be 1000 gallons or 1250 gallons. A 500 gallon tank may be added in tandem with the existing tank to meet code requirements. Please consult with your septic contractor regarding the options.

No effluent was observed in the existing dry well (installed 1973) on December 14. The dry well is 11.5 feet deep and has 4.5 feet of cover. The Inlet is believed to be at about 5 feet depth. The dry well is to be abandoned.

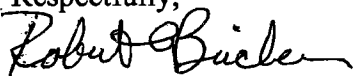
A repair trench was added in 1984. The trench was recorded as being 75 feet long, and had 5 feet of effective sidewall to a bottom depth of 12 feet. The total calculated absorption area of the trench was 525 square feet. This trench has been exposed 15 feet from the dry well: the gravel is clean and no septic odor could be detected. The existing trench may be retained as part of the septic system, and credited with about 300 square feet of absorption area remaining.

A septic system upgrade will be required, and will be a condition of the Health Department approval of the Building Permit application for an attached (24' x 24') garage. In addition to the septic tank capacity, trench absorption area of 562 square feet will be required to serve the 3-bedroom residence. Specifications have been written for a 50-foot trench to be installed immediately downhill (8 feet, center-to-center) of existing trench. Trench Bottom is to be at 10 feet and the Inlet at 4 feet or 5 feet depth. The septic system upgrade cannot occur until the Percolation Certification Plan has been approved by the Health Officer.

An existing well (no tag) was observed on the subject property. The well's steel casing extends more than 8" above the soil surface, and has a one-piece cap. A tag was not observed on the outside of the well casing. The well is to be protected during all phases of property redevelopment. Similarly the integrity of the septic easement is not to be compromised at any time; installation of drainfield trenches is the only acceptable excavation activity that should occur in that area.

Please see instructions for developing and submitting your Percolation Certification Plan. If you have any questions regarding this evaluation or stated requirements, please contact me at the above address or by calling (410) 313-2691.

Respectfully,



Robert C. Bricker, RS, CPSS  
Well and Septic Program  
Development Coordination Section

ENCLOSURES (1)  
COPY: File