



HOWARD COUNTY HEALTH DEPARTMENT

46278

CODES

DATE

3/13/14

A5

CASH

CHECK

Received From

Mohamed Kamal T. EL Sawi

For

Peric Test (2) 13942 Clarksville

NO.

125

One thousand twelve $\frac{44}{100}$ Pique

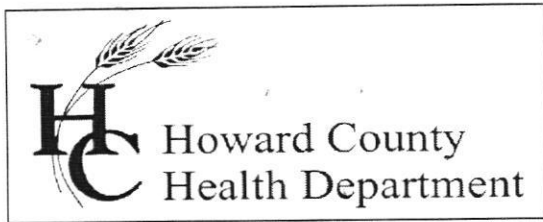
Dollars

\$

1012 00

Received By

J King



Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21045
Main: 410-313-6300 | Fax: 410-313-6303
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

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

December 3, 2013

To: Omar El Sawi, Owner/Applicant
chuckzepp@mrisc.com

RE: 13886 State Route 108, perc test report

Percolation tests were conducted at 13886 State Route 108 (Tax Map 40, Parcel 40) on November 26, 2013. Five test locations, '8501' to '8505', were staked in advance of the for test date. The existing septic tank, distribution box and one trench were exposed upon my arrival. Locations of percolation tests that PASS are used to define the sewage disposal area (SDA) proposed on the Percolation Certification Plan.

Test locations '8501', '8502', '8503', '8504'; and '8505' all 'PASS' having soils that are satisfactory for wastewater treatment and disposal. Please note that location '8505' had a measured rate of 34 minutes per inch, slightly greater than the 30-minute limit, but the location 'Passes' on the Environmental Sanitarian's judgment of soils having sandy loam texture and platy structure.

Locations were added to define a boundary to 'Failed' location 'P-5' tested in July 2007. Observations revealed: location '8506', 'FAIL' for shallow depth to layer defined as rock (greater than 50 percent of volume is rock); location '8507', PASS with estimated long-term loading rate of 0.8 gpd/sq.ft. between 2.2 feet and 4.5 feet in depth. The boundary for the SDA may be drawn through location '8507'.

The existing septic system was evaluated for serviceability. The septic tank has a center seam, and it has approximately 1500 gallons capacity beneath the level of the outlet. Three distribution pipes for trenches emerge from a 2'x2' Distribution Box. The trenches are 2-feet wide and have 1.5 feet of gravel beneath the pipe invert. The trenches were installed in very limited space. The trench uncovered was 15 feet in length; the entire distribution system may be as much as 50 to 60 feet in length, and likely is not as much as 100 feet. Given a loading rate of about 0.8 gpd/sqft. for the soil, 100 feet of trench provides Absorption Area for disposal of about 300 gallons of wastewater per day. The trench area is inadequate for a 5-bedroom residence. The septic system will have to be upgraded.

At this time, best available technology (BAT) systems must be included for all upgrade septic system installations in Maryland. Information concerning approved technologies and BAT unit characteristics is available on the Maryland Department of the Environment website.

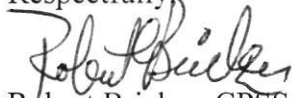
For the Health Department to approve continuation of renovation work under the pending Building Permit (B13003097), a Percolation Certification Plan must be signed

by the Approving Authority and a BAT Site Plan must be submitted and approved by an Environmental Sanitarian. The plans may be combined as one and submitted to my attention. After approval of the Percolation Certification and Installation Plan(s), the upgrade septic system must be installed and the existing septic tank properly abandoned.

The existing well has been inspected and its condition found to meet code requirements. Two replacement well locations will be defined on the Percolation Certification Plan.

If you have any questions regarding this evaluation or requirements for a Percolation Certification Plan or BAT Site Plan, please contact me by email or by calling (410) 313-2691.

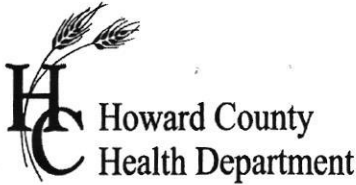
Respectfully,



Robert Bricker, CPSS, REHS/RS
Environmental Sanitarian II
Well and Septic Program

Enclosures: 1 PDF (Perc Test Application, 2 Field Worksheets and 1 Site Inspection Sheet)

Copy: John Carney, Benchmark Engineering, Inc.
file



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 545180

AGENCY REVIEW: _____

DATE 10/30/13

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 AS NEEDED:

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

CHECK ONE:

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

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 5 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) MOHAMED KAMAL EL SANVI

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS 13886 Route 108 Highland MO 20777
STREET CITY/TOWN STATE ZIP

APPLICANT BRIAN CLEARY/BENCHMARK ENG. INC.

DAYTIME PHONE 410-465-6105 CELL _____ FAX 410-465-6644

MAILING ADDRESS 8480 Baltimore Nat. PK. STE 315 Ellicott City MD 21043
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME 13886 Route 108 LOT NO. _____

PROPERTY ADDRESS 13886 Route 108 Highland MD 20777
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 40 GRID 15 PARCEL(S) 40 PROPOSED LOT SIZE 3,040

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) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

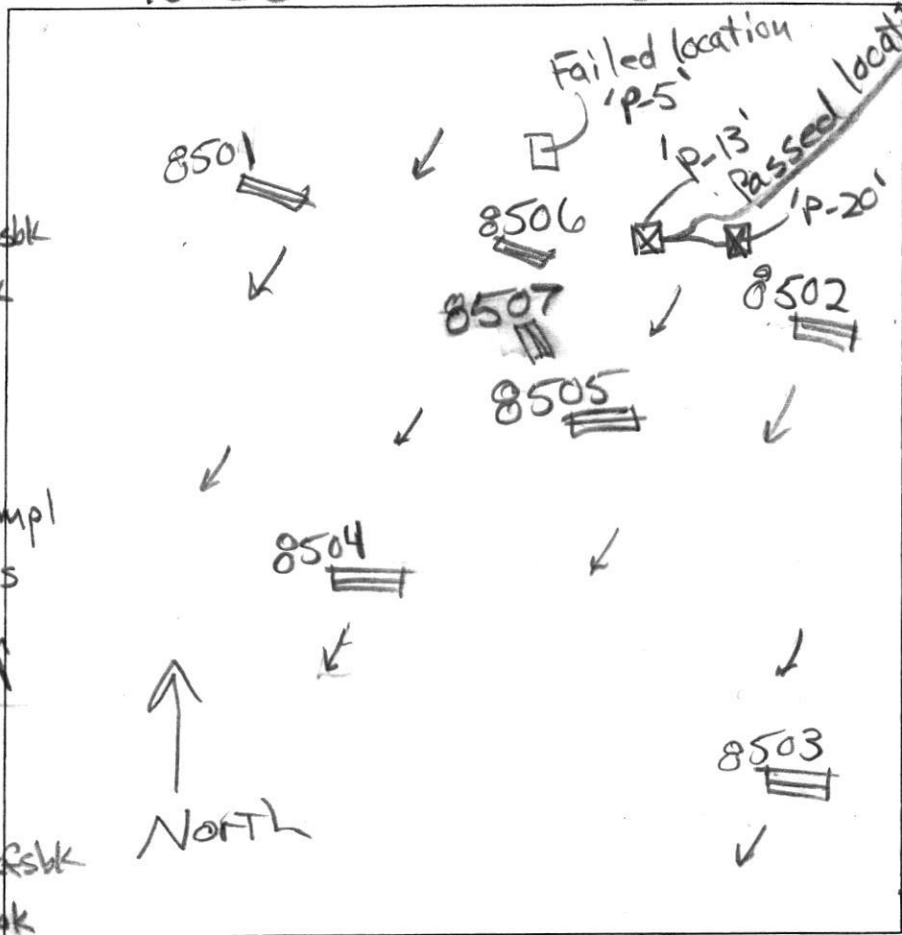
A545160

13886 MD. Rte 108

8504

AP
8501

- 0.7' grey-brn sl, pale brn sl, 1 fsbk
- 1.2' brn sl, 2 fsbk
- 2.2' brn L, 2 fsbk
- 3.7' yel-red sl, 3 fpl
- 6' yel-brn chls, 1 fpl
- 7' brn chsl, 2 mpl
- 9' grey-brn chls, 1 mpl
- 11' dk grey-brn chls, 2 mpl



- dk grey-brn sl to brn sl, 1 fsbk
- brn L, 1 msbk to 2 msbk
- 2' brn sl & m
- 4' yel-brn chsl, 2 mpl
- 7' pale yellow chls, 2 mpl
- 8' R

8503

- 8505
- 0.8' dk. brn sl, pale brn sl, 2 fsbk
 - 2' brn L, 2 msbk to 2 csbk
 - 2' yel-red chsl, 3 mpl
 - 2.6' yel-brn chls, 2 fpl, many coarse & very coarse mica
 - 3.7' brn sl, 1 mpl
 - 8.5' grey-brn chls, 3 mpl

- 0.8' dk brn sl to pale brn sl, 1 fsbk
- 2.5' brn L, 2 csbk to 2 msbk to 1 msbk
- 3.5' yel-red sl, 2 mpl & m, Alternating layers
- 4.5' brn sl, 2 mpl
- 11.5' grey-brn chls, 3 mpl

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11/26/13	8504	4' 8"	11:40	11:44	11:51	7	P
11/26/13	8501	5' 11"	0	1.4	3.4	2	P
11/26/13	8505	3.1' / 8.5'	12:15	12:30	1:04	34	P*
11/26/13	8503	4.8' / 11.5'	12:32	12:39	12:54	15	P*
11/26/13	8505	8.5'	Visual	3.5' to 4.5'	1.2 gpd / ft		P
11/26/13	8503	11.5'	Visual	4.5' to 7.5'	1.2 gpd / ft		P

Proposed SDA on hillside above house

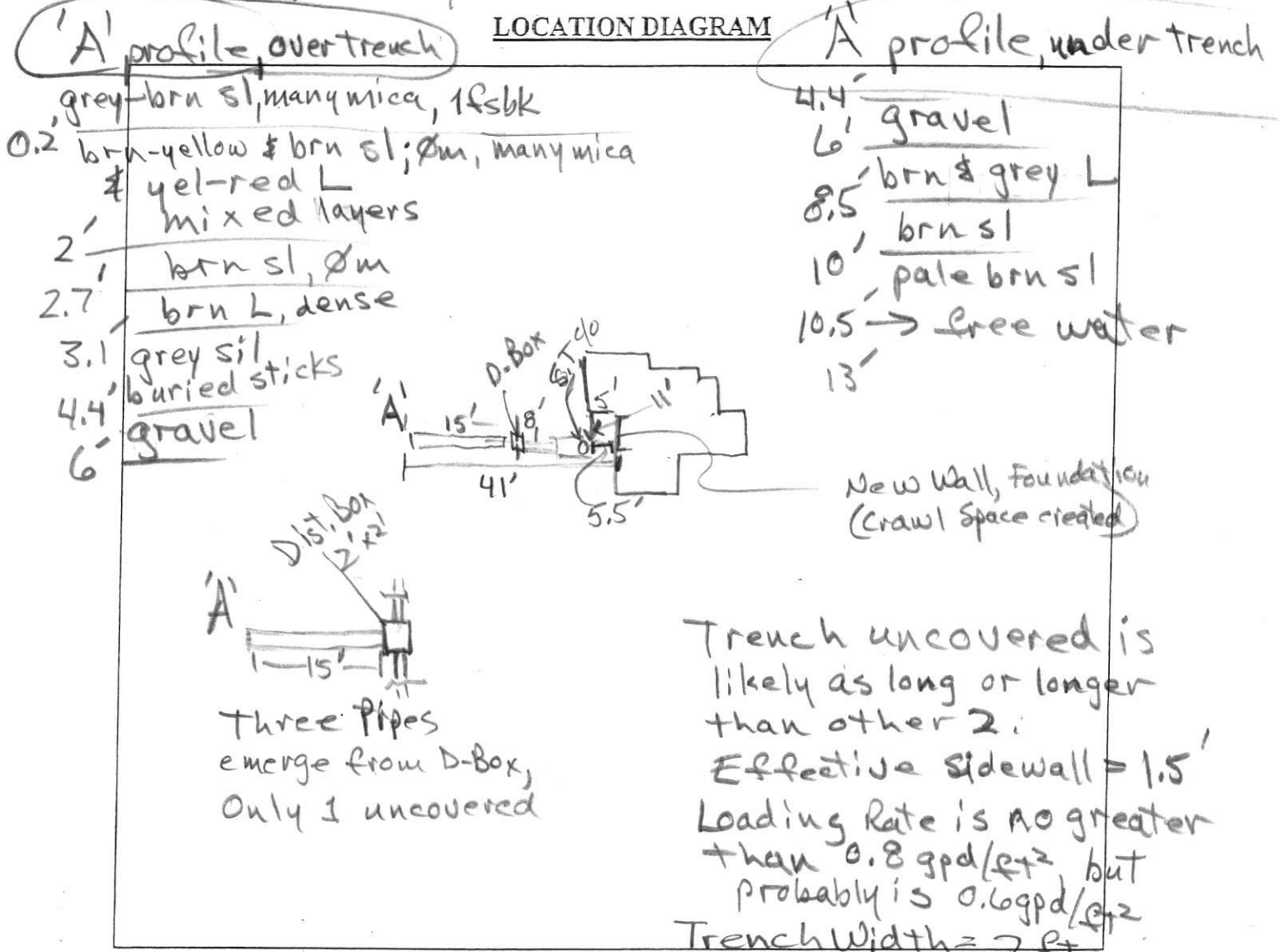
REMARKS: 8505, Passed by Sanitarians judgement
 SANITARIAN: R Bricker BACKHOE: Donnie (Hutfields) OTHERS: Jeff Reitor, Omar El Sawi
 TEST HOLES USED IN SDA: _____ AVG. PERC TIME: _____ SQ. FT/BR: _____
 TRENCH WIDTH: _____ INLET DEPTH: _____ MAX. BOT DEPTH: _____ EFFECTIVE SW: _____

* Hard Rain falling throughout Testing Period

SITE INSPECTION SHEET

OWNER: Omar El Sawi PHONE #: _____
 ADDRESS: 13886 Rte 108 CONTRACTOR: Hatfield's Equipment
Highland, MD 20777 WELL TAG #: _____
 SUBDIVISION: Tax Map 40 LOT: Parcel 40 COUNTY #: _____
 PROPOSAL: Inspect serviceability & design of existing septic system.

LOCATION DIAGRAM



COMMENTS: Septic Tank, 8.5' L x 5' W x 4.5' (to Inv Out); center seam;
2.7' To Top-of-Tank, from surface; Tile Outlet, no Sanitary Tee
Septic Tank Capacity is approx 1500 gal. Trench Design does not appear
to have adequate Absorption Area for 5-Bedroom residence.

DATE: 11/26/2013 INSPECTOR: R Boicker