

C1 6623

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER 13

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 05 26 06

Depth of Well 180 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 110-95-0059

OWNER ITS Corp, STREET OR RFD M. Magrabe Farm Cr, TOWN Catonsville, SUBDIVISION 4, SECTION 21/12/12, LOT 25

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows include Top Soil, Sandy, Sand Stone, MICKA, Sand Stone, MICKA.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM, BC), NO. OF BAGS 16, NO. OF POUNDS 1600, GALLONS OF WATER 96, DEPTH OF GROUT SEAL 0 ft.

CASING RECORD

MAIN CASING TYPE PL, Nominal diameter 6, Total depth of main casing 62

OTHER CASING (if used) diameter 4 inch, depth 180 to 100

SCREEN RECORD

screen type or open hole (ST, BR, HO), insert appropriate code below

DEPTH (nearest ft.) table with rows 1-3, 5-7, 9-11, 13-15, 17-19, 21-23, 25-27, 29-31, 33-35, 37-39, 41-43, 45-47, 49-51

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) (E.R.O.S.) W Q

TELESCOPE CASING, LOG INDICATOR, OTHER DATA

C 3

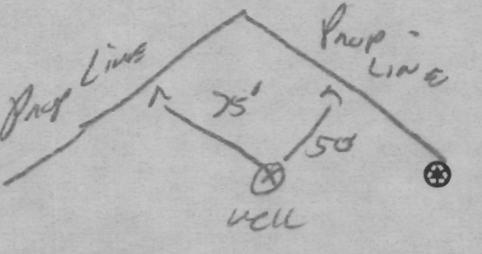
PUMPING TEST

HOURS PUMPED (nearest hour) 3, PUMPING RATE (gal. per min.) 5, METHOD USED TO MEASURE PUMPING RATE Bucket, WATER LEVEL (distance from land surface) BEFORE PUMPING 14 ft, WHEN PUMPING 48 ft, TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (YES/NO), TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29, CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31-35, PUMP HORSEPOWER 37-41, PUMP COLUMN LENGTH (nearest ft.) 43-47, CASING HEIGHT (circle appropriate box and enter casing height) + above, LAND SURFACE, - below, 2 (nearest foot)

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



NUMBER OF UNSUCCESSFUL WELLS: 0, WELL HYDROFRACTURED (Y), CIRCLE APPROPRIATE LETTER: A, E, P

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 28.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE

DRILLERS LIC. NO. M S D + L 2, DRILLERS SIGNATURE, LIC. NO. D

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

B 1 8927

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HD-95-0059

522472 please type

fill in this form completely

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13

J. T. S. Corp
8800 Centre Park Dr. Suite 205
Columbia MD 21045

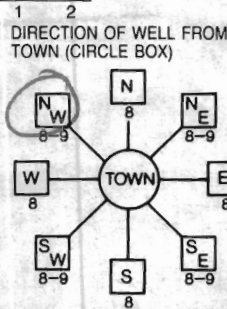
B 3 LOCATION OF WELL

Howard
8 COUNTY 21
Musgrove Farm
23 SUBDIVISION 42
SECTION 44 46 LOT 48 50
GLENELG
52 NEAREST TOWN 71
MILES FROM TOWN (enter 0 if in town) 2 M I 73 76 77 78

DRILLER INFORMATION

Ralph E. Mayne MS D 112
Ralph E. Mayne Inc
17024 Handy Rd W.H. Aring MD, 21221
5-14-05

B 4



Musgrove Farm Ct.
11 NEAR WHAT ROAD 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
34 150 37
DISTANCE FROM ROAD FT.
ENTER FT OR MI 38 39
TAX MAP: 21 BLK: 12 PARCEL 12

B 2 WELL INFORMATION

APPROX. PUMPING RATE 5 (GAL. PER MIN.)
AVERAGE DAILY QUANTITY NEEDED 500 (GAL. PER DAY)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13
COUNTY NAME COUNTY NO.
STATE SIGNATURE
DATE ISSUED 6/20/05
CO SIGNATURE EXP. DATE 6/20/06
NORTH GRID 524 000 EAST GRID 798 000

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
I INDUSTRIAL, COMMERCIAL, DEWATERING
P PUBLIC WATER SUPPLY WELL
T TEST, OBSERVATION, MONITORING
G GEO-THERMAL

APPROXIMATE DEPTH OF WELL 150 FEET
APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER
1. well
2.
3.

METHOD OF DRILLING (circle one)

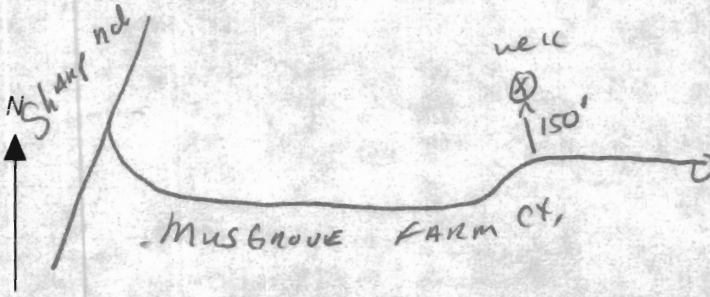
BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROtary AIR-PERcussion ROTARY (Hydraulic Rotary)
CABLE REVerse-ROtary DRive-POINT
other

WRITE THE BOX NUMBER FROM THE MAP HERE
E 525 798
N 800 524

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

N THIS WELL WILL NOT REPLACE AN EXISTING WELL
Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
D THIS WELL WILL DEEPEAN AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



Not to be filled in by driller (MDE OR COUNTY USE ONLY)
APPROP. PERMIT NUMBER HD 2005 G 002
PERMIT No. HD-95-0059

SPECIAL CONDITIONS

Allen: Mike

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2648**

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Home Land Pump & Water Telephone #: 443-846-8659
Address: 5414 A Arcochia Ave
Upperco, MD 21155

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): Michael Dadd License# PI0161

*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Ryan Homes Telephone #: 410-365-1328 (Pm)
Subdivision: Mosgrave Farms Lot #: 25 Well Tag #: HO-95-0059
Site Address: 1434P Mosgrave Farms Ct
Glennelg, MD

Submersible Pump Data **Pitless Adapter** **Well Cap and Electric Conduit**
Make: Cawfos Make: Cornell Two piece watertight cap:
Model #: 1550007180 Model#: PP 800 Screened, vented well cap:
Pump Capacity 15 GPM Depth: 42" (36" min) Cap secured to casing:
Well Yield: 1.0 GPM NSF approved: Conduit min 18" B.G.:
Depth of well encountered at time of pump installation: 146 (feet) Conduit secured to well cap:
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors or Cable guards are required - Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt

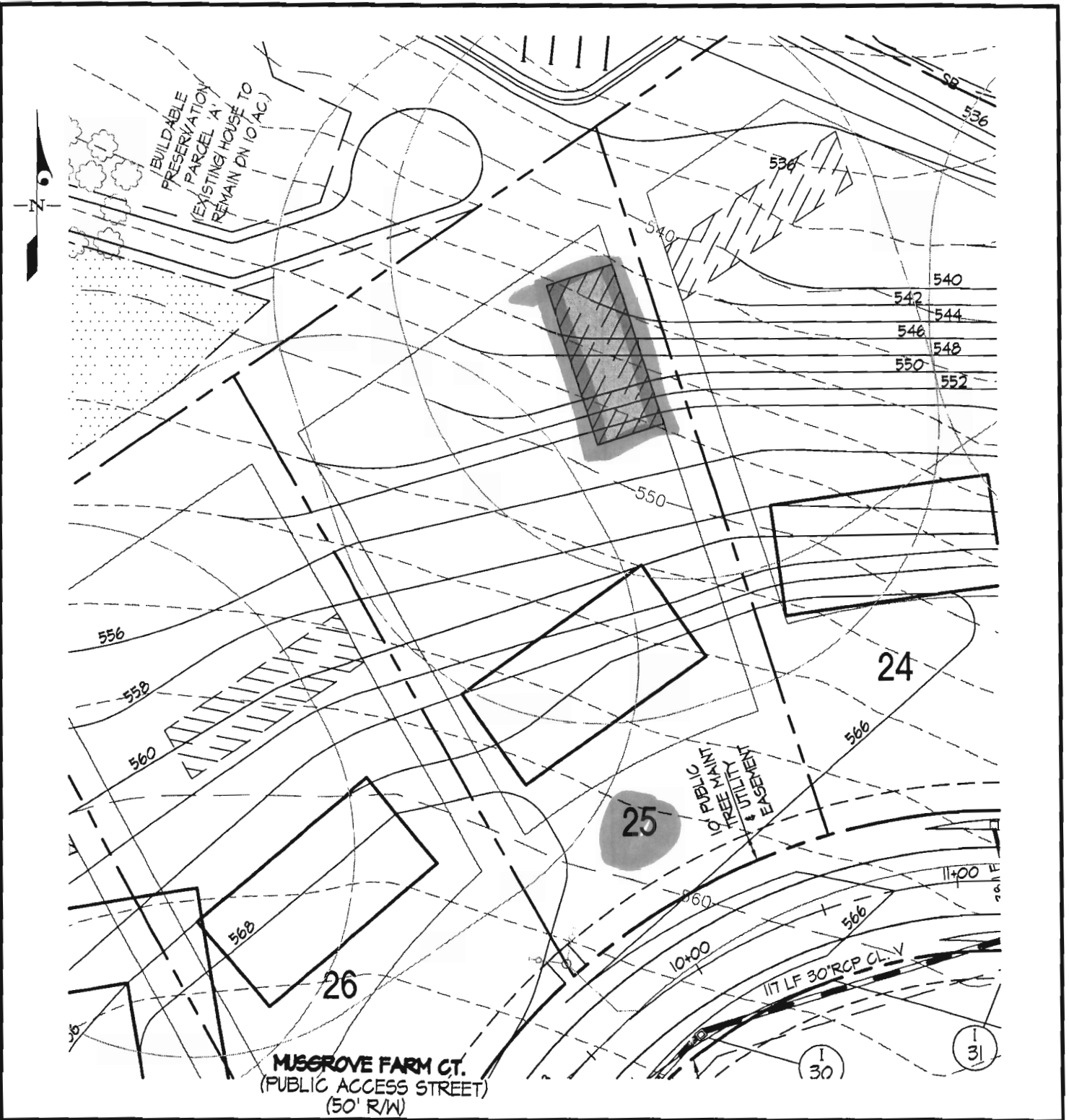
Piping to house **House Connection**
Type: SIDRCH DE P.P.C PVC sleeved to undisturbed soil at wall penetration:
PSI: 160 (160 psi min) Approximate length of sleeve: 6
Depth of supply line: (36" min) Sleeve caulked and sealed properly:

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.



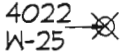
Signature of company representative responsible for installation _____ date 7-24-08

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: _____ Date Insp. Approved: 7/14/08 KW
Inspection Data: Pitless adapter and water supply line at least 36" below grade
Two piece cap installed and attached to casing securely
Elec. conduit extends at least 18" below grade/attached to cap properly
Safety rope installed inside of well casing
Correct well tag attached properly and casing 8" above finished grade
Water supply line sleeved adequately at house connection
Adequate grout observed below pitless adapter



LEGEND

-  CONCEPTUAL HOUSE BOX
-  WELL BOX
-  WELL SURVEY POINT

WELL LOCATION EXHIBIT - LOT 25

MUSGROVE FARM

Lots 1 thru 30, Buildable Preservation Parcels 'A' and Non-Buildable Preservation Parcels 'C' and 'D'

GLW GUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

SCALE: 1"=50'

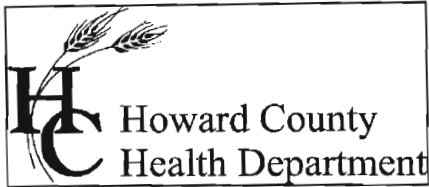
ZONING: RC/RR-DEO

TAX MAP/GRID: 22-12,22-1&7

GLW JOB NO: 01171

APR., 2005

1 OF 1



Bureau of Environmental Health
7178 Columbia Gateway Drive Columbia, Maryland 21046-2132
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

September 25, 2008

NVR, Inc.
6085 Marshalee Drive, Ste. 130
Elkridge, MD 21075

SENT VIA FACSIMILE 410-796-7094

RE: Musgrove Farm, Lot 25
14341 Musgrove Farm Court
Glenwood, MD 21738
BP# B08001342
Well Tag #: HO-95-0059

Dear Sir:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 08/27/2008. Final approval of the well line connection to the dwelling was approved on 07/14/2008.**

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. The water sample results were found to be in compliance with COMAR water quality standards.

INTERIM CERTIFICATE OF POTABILITY

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit # HO-95-0059. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Samples: 08/25/2008 & 08/29/2008
Date of Well Completion: 05/26/2006

Approving Authority,

Stuart Oster, R. S.
Well & Septic Program

cc: Building Inspector's Office
Community Health Services
File



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

August 29, 2008

Homeowner
14341 Musgrove Farm Court
Glenwood, MD 21738

RE: Musgrove Farms, Lot 25
14341 Musgrove Farm Ct.
BP # B08001342
Well Permit #HO-95-0059

Dear Sirs:

This is to advise you that the septic sewer house connection for the above referenced property has been installed and inspected. **Final approval was granted on 8/27/2008. Final approval of the well line connection to the dwelling was approved on 7/14/2008.**

This is a **Temporary Deviation** to the Code of Maryland Regulations (COMAR 26.04.04) to allow additional time for a well failing certificate of potability to be brought into compliance with these regulations. The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking.

TEMPORARY DEVIATION

The turbidity sample results were previously documented to be 24 NTUs on August 26th, 2008. A treatment device **has not** been installed to treat the excessive turbidity. COMAR 26.04.04.07 prohibits the approval of any water supply with a turbidity level of 10 NTUs or greater. **This department will grant a temporary deviation to that section of the regulation on condition that the turbidity level be lowered to below the limit either over time naturally or through the use of an approved treatment device (iron removal). Documentation of a turbidity level below the limit shall be submitted to this office by a state certified lab within 20 days of the date of this letter.**

By the end of the interim period (**20 days**), a determination shall be made by the Health Department whether to accept the well as being in compliance with the turbidity standard of COMAR 26.04.04.07J2b and issue an Interim Certificate of Potability, or issue an order that the well be abandoned and sealed. Issuance of this Temporary Deviation is based on information submitted by the potential occupant of the dwelling. **By issuance of this letter, the Health Department recommends release of the Use and Occupancy permit for the above referenced property.**

Date of Water Sample(s): 8/26/2008
Date of Well Completion: 5/26/2006

Respectfully,

A handwritten signature in black ink, appearing to read 'Kevin Wolf', written over a horizontal line.

Kevin Wolf, Sanitarian
Well & Septic Program

cc: Building Inspector's office
File



TRACE LABORATORIES, INC
 5 North Park Drive
 Hunt Valley, MD 21030 USA
 Telephone: 410/584-9099 / Fax: 410/584-9117
 Website: www.tracelabs.com / Email: info@tracelabs.com

Maryland State Certified Laboratory # 318

LETTER OF RESULTS

Home Land Septic Consulting
 Attn: Tim Shotzberger
 5414-A Arcadia Road
 Upperco, Maryland 21155

Report Date: September 2, 2008

S/O#: 69587

The following information was provided by Home Land Septic Consulting:

**Reference: Musgrove Farm, Lot #25
 14341 Musgrove Farm Court
 Glenelg, Maryland 21737**

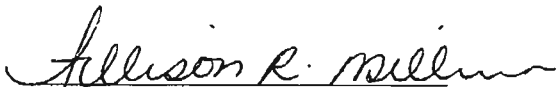
Well Information: HO-95-0059
 2-Piece Cap
 Satisfactory

Date/Time Received: August 29, 2008 at 9:20 am

Listed below are results of drinking water analyses on a water sample collected by self (certified sampling #8065TS) and delivered to Trace Laboratories for analysis:

<u>Parameter</u>	<u>Result</u>	<u>MCL</u>	
Turbidity (Raw):	135 NTU	10 NTU	HIGH
Turbidity (Treated):	<1.0 NTU	10 NTU	Pass

MCL=Maximum Contamination Level


 Allison R. Milburn
 Manager - Drinking Water Testing

NOTE: Trace Laboratories is not responsible for the collection or the transportation of the sample.



TRACE LABORATORIES, INC
 5 North Park Drive
 Hunt Valley, MD 21030 USA
 Telephone: 410/584-9099 / Fax: 410/584-9117
 Website: www.tracelabs.com / Email: info@tracelabs.com

Maryland State Certified Laboratory # 318

LETTER OF RESULTS

Home Land Septic Consulting
 Attn: Tim Shotzberger
 5414-A Arcadia Road
 Upperco, Maryland 21155

Report Date: August 26, 2008

S/O#: 69519

The following information was provided by Home Land Septic Consulting:

Reference: Musgrove Farm, Lot #25
 14341 Musgrove Farm Court
 Glenwood, Maryland 21738

Well Information: HO-95-0059 Field pH: 7.0 Units
 2-Piece Cap
 Satisfactory

Date/Time Sampled: August 25, 2008 at 2:30 pm
 Date/Time Received: August 25, 2008 at 3:00 pm

Listed below are results of drinking water analyses on a water sample collected by self (certified sampling #8065TS) and delivered to Trace Laboratories for analysis:

<u>Parameter</u>	<u>Result</u>	<u>MCL/*SMCL</u>	
Total Coliform:	Absent	Absent	Pass
E. coli:	Absent	Absent	Pass
Nitrate-N:	1.1 mg/L as N	10 mg/L as N	Pass
Turbidity:	24 NTU	10 NTU	HIGH
Iron	0.12 mg/L as F	*0.3 mg/L as Fe	***
Sand	Negative	Negative	

MCL=Maximum Contamination Level
 *SMCL=Secondary Maximum Contamination Level
 ***A non-enforceable parameter that may cause cosmetic effects or aesthetic effects (such as taste, color or odor) in drinking water.

Allison R. Milburn
 Allison R. Milburn
 Manager - Drinking Water Testing

NOTE: Trace Laboratories is not responsible for the collection or the transportation of the sample.

Mr. Bert Nixon
Director
Howard Co. Health Dept


8/29/2008

re: HO-95-0059

Dear Mr. Nixon,

Thank you for meeting with us today and providing us the well test results for 14341 Musgrove Farm Court, Glenwood, MD. We understand that you have not approved the well, based upon the measured Turbidity results for the report dated 8/26/2008. We have agreed to hold Ryan Homes, the builder of the associated home, responsible for installation of a treatment system to correct for this issue, and to conduct the subsequent testing to verify the corrective action. Thank you for your consideration in providing the temporary deviation request for the turbidity requirement.

Sincerely,


Robert R. Verrnot

Glee D. Verrnot
Glee D. Verrnot

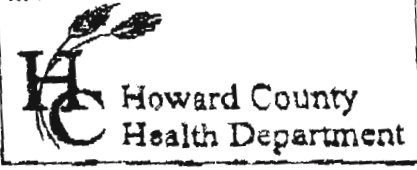
MAY-10-2005 16:49

J. THOMAS SCRIVENER

410 964 2620 P.02
410 964 2620 P.02

APR-26-2005 17:04

J. THOMAS SCRIVENER



3525 H Ellicott Mills Drive • Ellicott City, MD 21043
 (410) 313-2640 Fax (410) 313-2648
 TDD (410) 313-2923 Toll Free 1-866-313-6300
 website: www.hchealth.org

Panny E. Borenstein, M.D., M.P.H., Health Officer

ATTENTION WELL DRILLERS!!!

Muscrow Farm

When submitting a well application for a new or replacement well, please indicate one of the following:

- The well site has been staked by Gutschick Little & Weber PA on 05/05/05 and is ready for site inspection.
- _____ will call the Health Department for a time to meet in the field to verify a well location.
- Site plan for new well is attached to well permit application.

Please attach this sheet when submitting your green application. This should help improve communication allowing a more timely service for our citizens.

KN

Apr. 26 2005 04:55PM P2

PRX NO. : 4104899734

FROM : RALPH WAYNE WELLS DRILLING

TOTAL P.02

TOTAL P.02