

C1 6902

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 A517336

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 4 18 2008

Depth of Well 22 265 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-1580

OWNER Warfield Jr Kennard last name first name STREET OR RFD Michele Dr TOWN Dayton SUBDIVISION The Warfields II SECTION 2 LOT 61

WELL LOG Not required for driven wells

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows include Sand (0-52) and Gray mica Rock (52-265).

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle appropriate box) YES [Y] NO [N] CEMENT [CM] BENTONITE CLAY [BC] NO. OF BAGS 20 NO. OF POUNDS 9850

CASING RECORD MAIN CASING TYPE [ST] Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 60

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD screen type or open hole [ST] [BR] [HO] [PL] [OT] insert appropriate code below

DEPTH (nearest ft.) table with columns 1-6 and rows A-C-S-R-E-N

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED [Y] [N]

CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. 1 MSD024 DRILLERS SIGNATURE [Signature] LIC. NO. 1 MSD027

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

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q 70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST

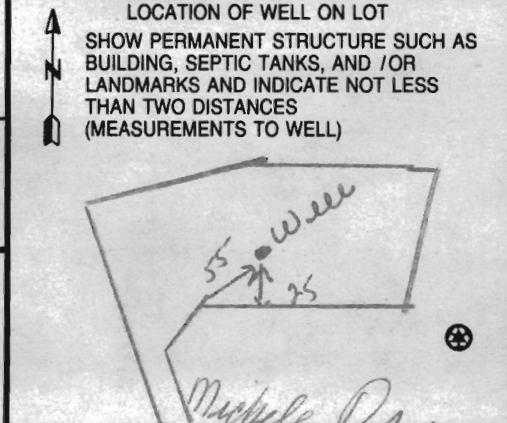
HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 12 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 23 ft. WHEN PUMPING 112 ft. TYPE OF PUMP USED (for test) [S] submersible

PUMP INSTALLED DRILLER INSTALLED PUMP YES [NO]

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

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 HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) [+] above LAND SURFACE [-] below 3 (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)



B 1 1054

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 528460 please type

STATE PERMIT NUMBER

HO-95-1580 fill in this form completely

Date Received (APA) 1-28-08

OWNER INFORMATION

Warfield Jr Kennard P.O. Box 30 Md 21734

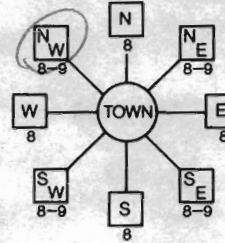
B 3 LOCATION OF WELL Howard

8 COUNTY 21 The Warfield II 23 SUBDIVISION 42 SECTION 2 LOT 61 52 NEAREST TOWN Dayton MILES FROM TOWN 4

DRILLER INFORMATION

Joseph L Mayne M SD 024 Joseph L Mayne Well Drilling 5512 Ridge Rd Mt. Airy Md 21771 1-18-2008

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Michelle Drive 34 265 37 DISTANCE FROM ROAD FT ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) TAX MAP: 21 BLK: 24 PARCEL 114

B 2 WELL INFORMATION APPROX. PUMPING RATE 5 AVERAGE DAILY QUANTITY NEEDED 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION (circled) FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) INDUSTRIAL, COMMERCIAL, DEWATERING PUBLIC WATER SUPPLY WELL TEST, OBSERVATION, MONITORING GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13 A 517 336 COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 3/10/08 CO SIGNATURE EXP. DATE 3/10/09 NORTH GRID 516 000 EAST GRID 0796 000

APPROXIMATE DEPTH OF WELL 300 FEET APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST

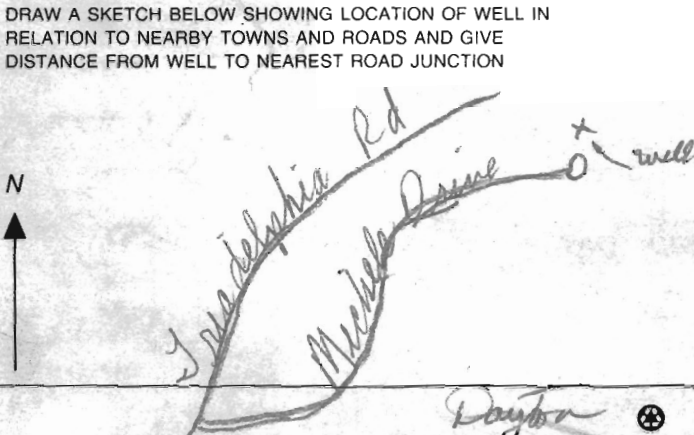
METHOD OF DRILLING (circle one)

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

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

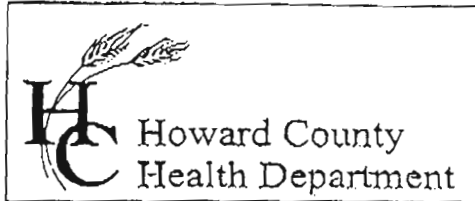
- THIS WELL WILL NOT REPLACE AN EXISTING WELL (circled) THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEM AN EXISTING WELL PERMIT NUMBER OF WELL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

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. Well WRITE THE BOX NUMBER FROM THE MAP HERE E 7906 N 5106



Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER HO 2006 G 009 PERMIT No. HO-95-1580

SPECIAL CONDITIONS



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

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

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

Well Site Location:

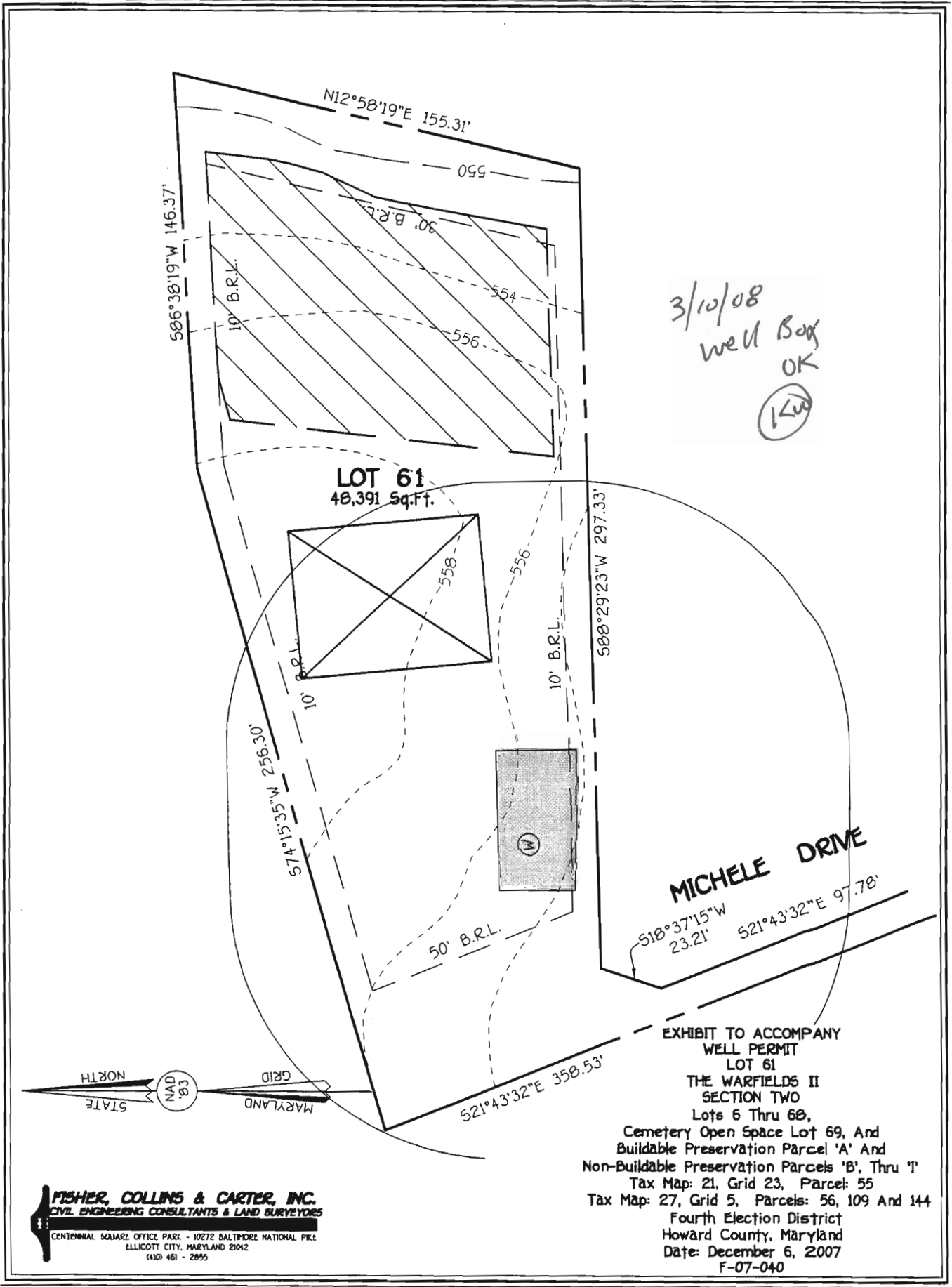
The Warfields II 10 Lots Triadelphia Rd
 Subdivision/Property Name Lot# Road Name

The well site has been staked by Fisher Carter Collins
 (professional land surveyor or company employing professional land surveyors)
 on 1-16-2008 (date) and does not require a site inspection.

The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 3/11/05



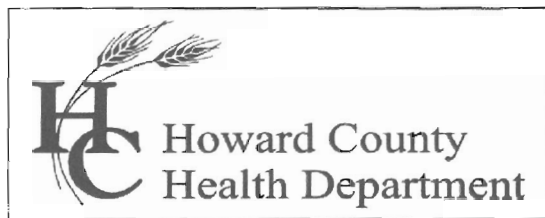
3/10/08
well Box
OK
144

LOT 61
48,391 Sq.Ft.

MICHELE DRIVE

EXHIBIT TO ACCOMPANY
WELL PERMIT
LOT 61
THE WARFIELDS II
SECTION TWO
Lots 6 Thru 68,
Cemetery Open Space Lot 69, And
Buildable Preservation Parcel 'A' And
Non-Buildable Preservation Parcels 'B', Thru 'I'
Tax Map: 21, Grid 23, Parcel: 55
Tax Map: 27, Grid 5, Parcels: 56, 109 And 144
Fourth Election District
Howard County, Maryland
Date: December 6, 2007
F-07-040

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
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

INTERIM CERTIFICATE OF POTABILITY
PERMANENT DEVIATION FOR NITRATES

Expiration Date – DECEMBER 24, 2013

6/24/2013

Homeowner
14947 Michele Drive
Glenelg, MD 21737

RE: The Warfields II, Lot 61
14947 Michele Drive
Building Permit: BB13000179
Well Permit: HO-95-1580

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **5/15/2013**. Final approval of the well line connection to the dwelling was granted on **5/13/2013**. The well construction was completed on **4/18/2008**. Water samples were collected on **6/14/2013**.

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 untreated water sample collected on **6/14/2013** indicated a nitrate level of **11.0 mg/L**. **This exceeds the maximum contaminant limit of 10 mg/L set forth in COMAR 26.04.04.09**. After installation of a nitrate removal device (kitchen tap reverse osmosis system), a post-treatment water sample was collected on **6/20/2013** and indicated a nitrate level of **< 1.0 mg/L**.

This Department will grant a **permanent deviation** to the Interim Certificate of Potability on condition that the nitrate removal system effectively maintains a nitrate-nitrogen contaminant level of **10 mg/L or less**.

Furthermore, it will be necessary for you to comply with the following conditions:

1. The system must be properly operated and maintained continuously in accordance with the service contract for the life of the residence.
2. It is recommended that a Maryland certified water laboratory certified for nitrates analysis perform a yearly nitrate analysis.

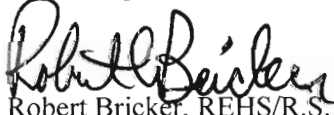
3. If you decide to sell or rent your home in the future, you must make any potential buyer/tenant aware of this permanent deviation. **A person who fails to make this disclosure is subject to the penalties set out in COMAR 26.04.04.12F Enforcement and Environment Article 9-1311, Annotated Code of Maryland.**

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-95-1580. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. **Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the *Annotated Code of Maryland, Environment Article, 9-1311*, subject to a fine of up to \$500 or imprisonment not to exceed three months.**

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water quality laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website:
<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

Approving Authority,


Robert Bricker, REHS/R.S.
Environmental Sanitarian
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
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

CERTIFICATE OF ANALYSIS

Requester:

Rick Cross
 Robert L. Feezer Company
 6321 Barnett Avenue
 Sykesville, Maryland 21784

S/O Number: 89469

Report Date: June 17, 2013

Property Sampled: 14947 Michele Drive, 21737
Sample Location: Pressure Tank Tap ✓
Residual Chlorine: <0.1 mg/L ✓

Building Permit #: B13000179
Sampler ID #: 7483AM
Samples Iced: Yes

County: Howard
Map: 27

Subdivision: The Warfields II S2 RSB
Parcel: 114
Lot #: 61

Date/Time Collected in Field: June 14, 2013 @ 10:55 am
Date/Time Received in Lab: June 14, 2013 @ 1:56 pm

Well Tag #: HO-95-1580 ✓
Well Condition: 2-Piece Cap, Satisfactory ✓

Water Treatment/Conditioning: Softener, Neutralizer

PARAMETER	METHOD	MCL/*SMCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	Absent ✓	Pass
<i>E. coli</i>	SM 9223B	Absent	Absent ✓	Pass
Nitrate	SM 4500D	10 mg/L as N	11.0 mg/L as N	FAIL
Turbidity	EPA 180.1	10 NTU	1.6 NTU ✓	Pass
pH	EPA 150.1	*6.5-8.5 Units	6.4 Units ✓	***
Sand		Absent	Absent ✓	Pass

The results in this report relate only to those items tested. If any additional information or clarification of this report is required, please contact us. This test report shall not be reproduced except in full without the written approval of Trace Laboratories Inc.

*Results 'OK', except Nitrate.
 rcb 6/24/13*

Katherine C. Higgs
 Katherine C. Higgs
 Manager – Drinking Water Testing

MCL: Maximum Contamination Level, an enforceable level established by the EPA
 *SMCL: Secondary Maximum Contamination Level, a level recommended by the EPA
 ***A non-enforceable parameter that may cause cosmetic effects or aesthetic effects (such as taste, color or odor) in drinking water.



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 Website: www.tracelabs.com / Email: info@tracelabs.com

Maryland State Certified Laboratory #318

CERTIFICATE OF ANALYSIS

Requester:

Rick Cross
 Robert L. Feezer Company
 6321 Barnett Avenue
 Sykesville, Maryland 21784

S/O Number: 89528

Report Date: June 21, 2013

Nitrate Retest #1

Property Sampled: 14947 Michele Drive, 21737
Sample Location: Kitchen R/O Tap ✓
Residual Chlorine: <0.1 mg/L ✓

Building Permit #: B13000179
Sampler ID #: 7483AM
Samples Iced: Yes

County: Howard
Map: 27

Subdivision: The Warfields II S2 RSB
Parcel: 114 **Lot #:** 61

Date/Time Collected in Field: June 20, 2013 @ 2:25 pm
Date/Time Received in Lab: June 20, 2013 @ 4:18 pm

Well Tag #: HO-95-1580
Well Condition: 2-Piece Cap, Satisfactory

Water Treatment/Conditioning: Softener, Neutralizer, Reverse Osmosis (R/O) ✓

PARAMETER	METHOD	MCL	RESULT	PASS/FAIL
Nitrate	SM 4500D	10 mg/L as N	<1.0 mg/L as N	Pass

The results in this report relate only to those items tested. If any additional information or clarification of this report is required, please contact us. This test report shall not be reproduced except in full without the written approval of Trace Laboratories Inc.

*Nitrate 'OK'
 KB 6/24/13*

Katherine C. Higgs
 Katherine C. Higgs
 Manager – Drinking Water Testing



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
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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

**REQUEST FOR PERMANENT DEVIATION TO
NITRATE STANDARDS FOR CERTIFICATE OF POTABILITY**

DATE: June 18, 2013 WELL PERMIT # : HO - 95 - 1505

PROPERTY OWNER: Byung Soh

SUBDIVISION & LOT #: Warfields II- lot # 61

PROPERTY ADDRESS: 14947 Michele Drive

CONDITIONS:

- 1) The well installed under permit # HO -95 - 1580 has been documented to have a nitrate level of 11.0 ppm, which exceeds the MCL of 10 ppm.
- 2) After installation and operation of a nitrate filtration system, water samples collected on 6/20/13 indicated that the nitrate contamination has been reduced to <1.0 ppm at the primary drinking tap.

I hereby request that a Permanent Deviation to COMAR 26.04.04.09 be granted for the well installed under permit HO - 95 - 1580 I am fully aware of the conditions under which this deviation will be granted, and of my responsibilities as the well owner, which include advising any future buyer/ tenant of the installation, condition and maintenance responsibilities of the nitrate removal device.

Prospective Owner's Original Signature(s) [Person(s) that intend to live in the dwelling]

Byung Soh _____

Prospective Owner's Day Time Phone Number(s)

443-798-0730 _____