

C 1 - 14238

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

COUNTY NUMBER A510610

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

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 9/3/02

Depth of Well 300 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" H0-94-3487

OWNER LAND DEVELOPMENT STREET OR RFD CARRS MILL ROAD TOWN LISBON SUBDIVISION MAPLE RIDGE SECTION LOT Pts Parcel A

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, tannish/white Sand, tannish/brown slate, Limestone, Bluish gray slate, Limestone, Bluish/gray slate, Blue slate.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (C) (M) (B) (C) NO. OF BAGS 19 NO. OF POUNDS 1780 GALLONS OF WATER 114 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 40 ft.

CASING RECORD

MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch)! 66 Total depth of main casing (nearest foot) 40

SCREEN RECORD

DEPTH (nearest ft.) HO 38 300

C 3

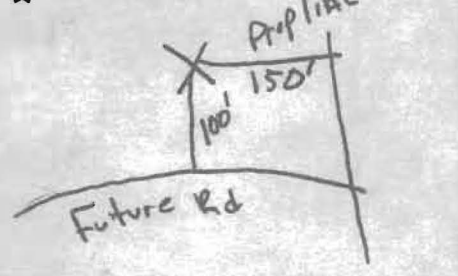
PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 15. METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 42 ft. WHEN PUMPING 45 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 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) (N)

CIRCLE APPROPRIATE LETTER 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, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. 1 MWD 040 DRILLERS SIGNATURE George Z. Eastman

LIC. NO. JWD 227

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 88

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

B 1 2180

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

please type

STATE PERMIT NUMBER

Ho-94-3489 fill in this form completely

Date Received (APA)

OWNER INFORMATION

9125

8 MM DD YY 13

Landscape Development

15 Last Name Owner First Name 34

16307 Carrs Mill Road

36 Street or RFD 55

Woodbine, Md 21797

57 Town 70 State 72 Zip 76

B 3

LOCATION OF WELL

Howard CC#

8 COUNTY 21

Maple Ridge

23 SUBDIVISION A PRES 42

SECTION 44 46 LOT 48 50

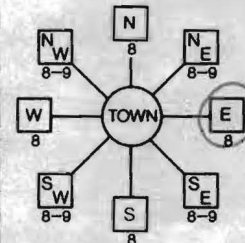
Lisbon

52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 1 M I 73 76 77 78

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Carrs Mill Road

11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 375 37 DISTANCE FROM ROAD FT. 38 39

TAX MAP: 8 BLK: 14 PARCEL 51378

DRILLER INFORMATION

George F. Easterday M WD 040

Driller's Name 76 License No. 81

L. Franklin Easterday, Inc.

Firm Name

9265 Brown Church Rd., MT. Airy, Md. 21771

Address

Signature: George F. Easterday Date: 7/12/2002

B 2

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 500 20

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

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

HOWARD COUNTY NAME AS10610 COUNTY NO.
STATE SIGNATURE INSERT S
DATE ISSUED 08/15/02 Mark E. Piffin 8/15/02
43 MM DD YY 48 CO SIGNATURE EXP. DATE
NORTH GRID 543 000 EAST GRID 785 000
50 55 57 63

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST

METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)
CABLE REVERSE-ROTary DRIVE-POINT
other

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

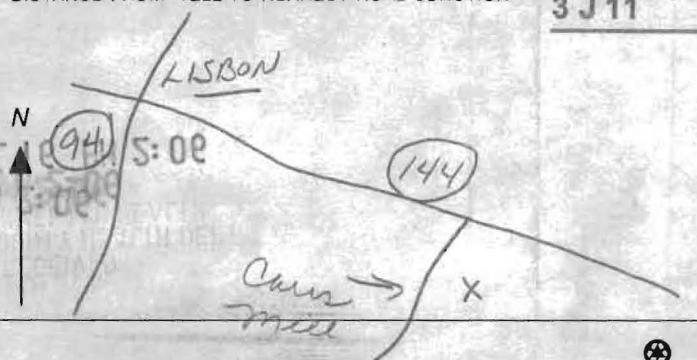
SOURCES OF DRILLING WATER

- 1. wells
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE

70x5
E 54003
N

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



REPLACEMENT OR DEEPEINED 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 DEEPEIN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 52

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROX. PERMIT NUMBER G
PERMIT No. Ho-94-3489

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

**Ehrhardt Brothers Quality
Plumbing, Inc.**

5552 Cedar Lane
Columbia, MD 21044

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WELL & SEPTIC PROGRAM
TEL: (410)313-1771 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: EHRLHARDT BROTHERS Telephone #: 410 995-8414
Address: QUALITY PLUMBING INC.
5552 CEDAR LANE COX 21044

(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 P. EHRLHARDT License# 20060

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

Name of Property Owner: LOREL SPIEGEL Telephone #: _____
Subdivision: MAPLE RIDGE Lot #: A Well Tag #: HO-94-3489
Site Address: 15439 MAPLE RIDGE RD.
WOODRIDGE 21797

| | | |
|--|----------------------------|--|
| Submersible Pump Data | Pitless Adapter | Well Cap and Electric Conduit |
| Make: <u>GOULD</u> | Make: <u>CAMBER</u> | Two piece watertight cap: _____ |
| Model #: <u>136515422C</u> | Model#: <u>1" DPT</u> | Screened, vented well cap: <input checked="" type="checkbox"/> |
| Pump Capacity <u>13</u> GPM | Depth: <u>50</u> (36" min) | Cap secured to casing: <input checked="" type="checkbox"/> |
| Well Yield: <u>15</u> GPM | NSF/WSC approved: _____ | Conduit min 18" B.G.: <u>40</u> |
| Depth of well encountered at time of pump installation: <u>270</u> (feet) | | Conduit secured to well cap: <input checked="" type="checkbox"/> |
| If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4 | | |
| <u>Torque arrestors</u> , <u>Cable guards</u> , or other acceptable method used- Must circle one | | |
| <u>Safety rope</u> , if used, attached to brass rope adapter or other acceptable method <u>inside of well casing</u> | | |

| | |
|---|---|
| Piping to house | House Connection |
| Type: <u>1"</u> | PVC sleeve to undisturbed soil at wall penetration: <input checked="" type="checkbox"/> |
| PSI: <u>160</u> (160 psi min) | Length of sleeve (5' minimum from foundation): <u>10</u> |
| Depth of supply line: <u>43</u> (36" min) | Sleeve sealed properly: <u>French silicate</u> |

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.

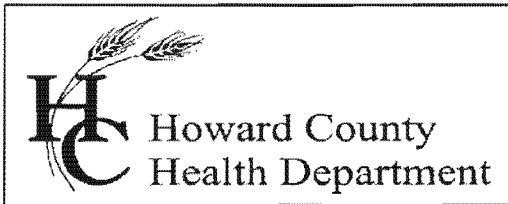
Signature of company representative responsible for installation: Michael P. Ehrhardt date: 3/29/16

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

Date Insp. Requested: 1/8/16 Date Insp. Approved: 1/8/16 Inspector: SC

| | |
|--|-------------------------------------|
| Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade | <input checked="" type="checkbox"/> |
| Two piece cap installed and attached to casing securely | <input checked="" type="checkbox"/> |
| Elec. conduit extends at least 18" below grade/attached to cap properly | <input checked="" type="checkbox"/> |
| Safety rope not outside of well cap/casing | <input checked="" type="checkbox"/> |
| Correct well tag attached properly and casing 8" above finished grade | <input checked="" type="checkbox"/> |
| Water supply line sleeved adequately at house connection | <input checked="" type="checkbox"/> |
| Adequate grout observed below pitless adapter | <input checked="" type="checkbox"/> |

to: S. COLLINS scollins@howardcountymd.gov
Howard County



Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21045
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – OCTOBER 1, 2016

April 1, 2016

Homeowner
15439 Maple Ridge Road
Woodbine, MD 21797

RE: Maple Ridge, P. A
15439 Maple Ridge Road
Building Permit: B15000853
Well Permit: HO-94-3489

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 **3/30/2016**. Final approval of the well line connection to the dwelling was granted on **1/8/2016**. The well construction was completed on **9/3/2002**. Water samples were collected on **3/16/2016**.

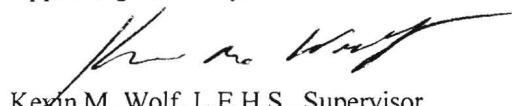
The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-94-3489. 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 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>

In closing, please refer to our "Homeowner Fact Sheet" which illustrates a better understanding for your Best Available Technology (BAT). You will also find a link to Maryland Department of the Environments website which describes in further detail operation and maintenance of your BAT.

Approving Authority,

A handwritten signature in black ink, appearing to read "Kevin M. Wolf", is written over the printed name below.

Kevin M. Wolf, L.E.H.S., Supervisor
Groundwater Management Section
Well & Septic Program

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

Water Testing Laboratories

P.O. Box 712
Stevensville, MD 21666
410-643-7711

of Maryland, Inc.

Phillip Stevens
15439 Maple Ridge Drive
Woodbine, Md 21797

Reporting Date: 3/21/2016
Report #: M3845

Submitted Sample Address: 15439 Maple Ridge Drive
Woodbine, MD

Submitted Sample Source: Bathroom sink-well cap
intact & no devices on
system

OK
3/31/16 SC

Date / Time Collected: 3/16/2016 01:15 PM

Sample Type: Drinking Water

Sampler/Company: K. Lee 4827KL, WTL of MD

Field Record: Chlorine residual: Absent Clear when drawn pH: 7.5

Well Tag #: HO-94-3489

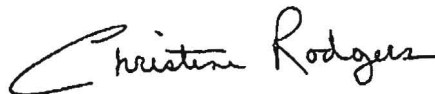
Analytical Results

| Parameter | Result | Units | Report Limit | Standard | Standard Type |
|-------------------------|--------|------------------|----------------|-----------|-----------------|
| Total Coliform Bacteria | Absent | Coliforms/100 ml | Present/Absent | Absent | EPA Primary MCL |
| <i>E. Coli</i> Bacteria | Absent | Coliforms/100 ml | Present/Absent | Absent | EPA Primary MCL |
| Nitrate as N | 1.9 | mg/L | 0.5 | 10 | EPA Primary MCL |
| Sand | Absent | mg/L or Absent | mg/L or Absent | < 5 mg/L* | MD Well Reg. |
| Turbidity | 0.9 | NTU | 0.5 | < 10 NTU* | MD Well Reg. |

Notes:

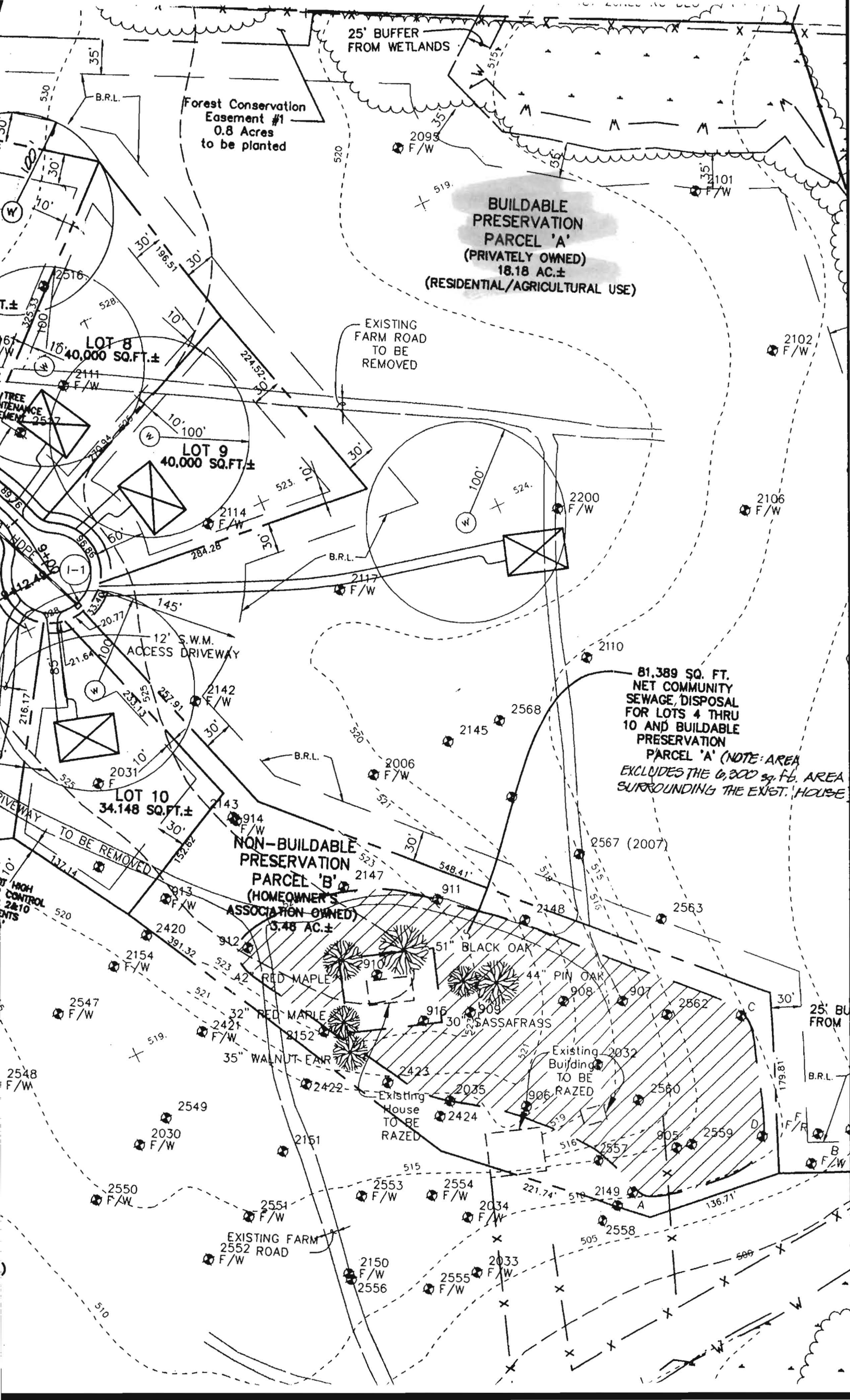
- Bacteriological analysis of this sample indicates this water is safe for human consumption.
- Results in **BOLD** exceed the MCL, Action Level or MD well regulation.
- Samples received and examined within EPA's recommended holding times.
- MCL - Maximum Contaminant Level
- ND - Not Detected.
- * Sand and turbidity standard for new wells - See Code of Maryland Regulations (COMAR) 26.04.04.16E(5). If sand is present, it is analyzed to determine amount of sand in mg/L.
- MCL Type -
 - EPA Primary:** The maximum contaminant level which is the highest level of contaminant that is allowed in drinking water. Primary MCLs are enforceable standards.
 - EPA Secondary:** Non enforceable guidelines regulating contaminants that cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste or odor) in drinking water.
 - Action Level:** Defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.
- We certify that the analyses performed for this report are accurate, and that the laboratory tests were conducted by methods approved by the US Environmental Protection Agency and the Maryland Department of the Environment.

Reported by,



C. Rodgers, Assistant Lab Manager, Microbiology

Reviewed by: 



25' BUFFER FROM WETLANDS

Forest Conservation Easement #1
0.8 Acres to be planted

BUILDABLE PRESERVATION PARCEL 'A'
(PRIVATELY OWNED)
18.18 AC.±
(RESIDENTIAL/AGRICULTURAL USE)

EXISTING FARM ROAD TO BE REMOVED

LOT 8
15' x 40,000 SQ.FT.±

LOT 9
40,000 SQ.FT.±

LOT 10
34,148 SQ.FT.±

NON-BUILDABLE PRESERVATION PARCEL 'B'
(HOMEOWNER'S ASSOCIATION OWNED)
3.48 AC.±

81,389 SQ. FT. NET COMMUNITY SEWAGE DISPOSAL FOR LOTS 4 THRU 10 AND BUILDABLE PRESERVATION PARCEL 'A' (NOTE: AREA EXCLUDES THE 6,300 SQ. FT. AREA SURROUNDING THE EXIST. HOUSE)

51" BLACK OAK
44" PIN OAK
30" SASSAFRASS
32" RED MAPLE
35" WALNUT-EAR

Existing Building TO BE RAZED

Existing House TO BE RAZED

EXISTING FARM ROAD 2552 ROAD

N85°46'05"W

10' BRL
284.28'

30' BRL

Well Site OK
MR 8/14/02
No INSP

Private Grass
Channel for Driveway

145' BRL

520

30' BRL

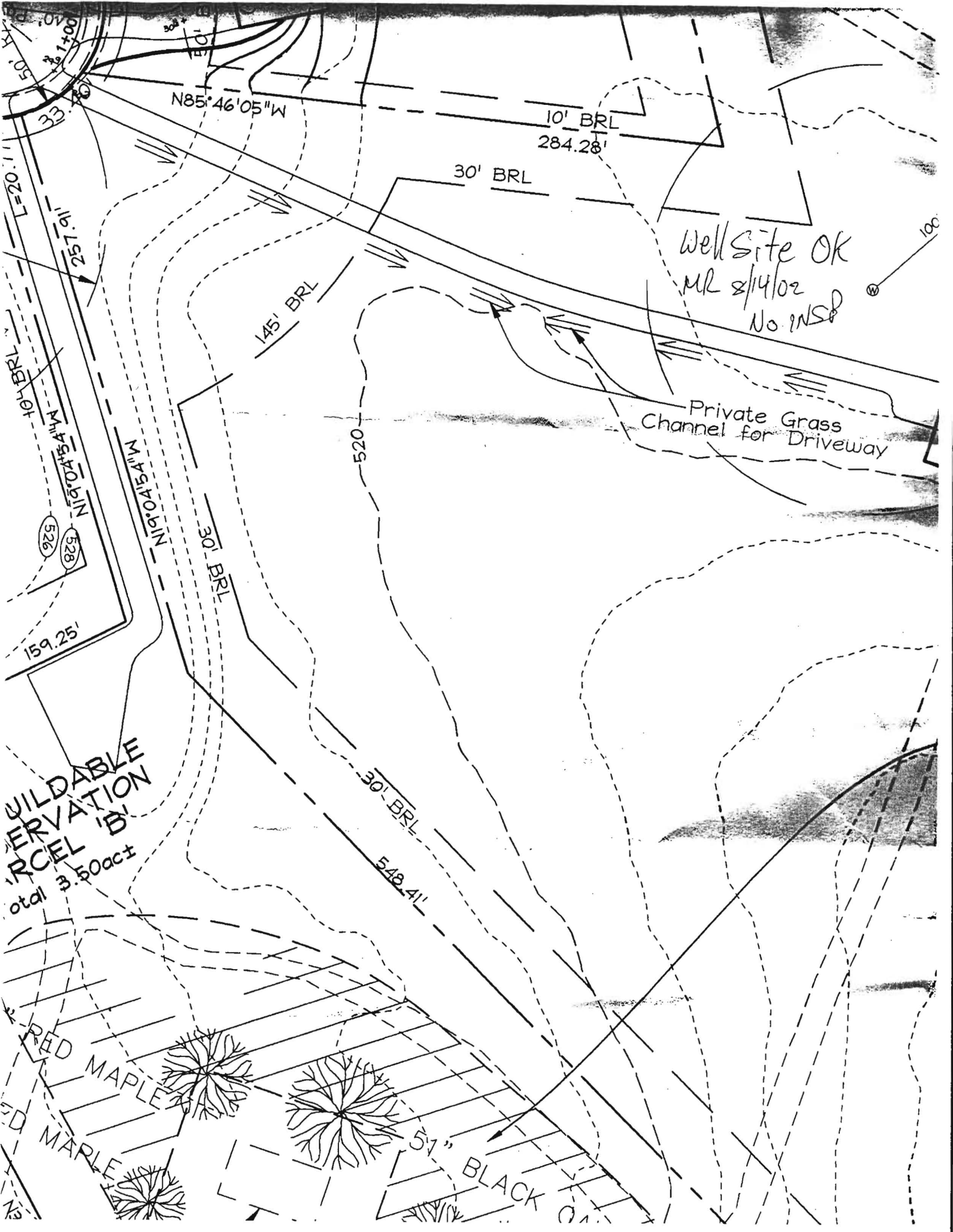
30' BRL

548.41'

WILDABLE
ERVATION
RCEL 'B'
otal 3.50act

RED MAPLE
RED MAPLE
RED MAPLE

5 1/2" BLACK OAK

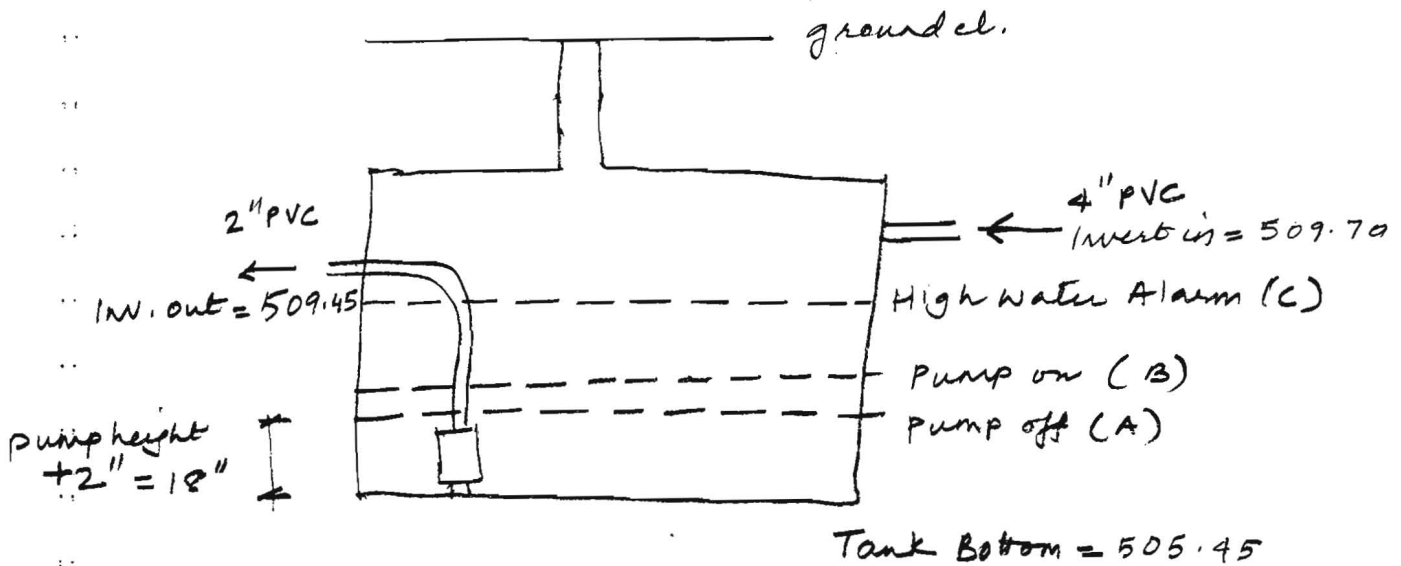


April 13, 2015

PUMP DESIGN
SPIEGEL RESIDENCE

Design Flow (5 bedrooms) = 750 gpd.
= $750 / 24 \times 60 = 0.52 \text{ gpm}$

Use 1,500 gal. pump chamber



Tank Base Area = $12.42' \times 6.17' = 76.57 \text{ SF}$

Volume between (A) and (C) should be 1 day storage = 750 gal (SBR)

Determine pump chambers 'gallons per inch'
= $(\text{Tank area} \times 7.5) / 12 = (76.57 \times 7.5) / 12 = 47.85 \text{ gal/in.}$
∴ Storage volume / difference C-A = $750 / 47.85 = 15.67''$
or 1.31'

Pump off elevation = Tank bottom + pump height + 2" (A)
= $505.45 + 16'' + 2'' = 506.95$

High water alarm elev. = (A) + 1.31 = $506.95 + 1.31 = 508.26$

Calculate pump on elevation (B)

Dosing volume of 50 gal pumped between pump on (B) and pump off (A)

$$\therefore \text{Difference between (B) \& (A) = dosing volume / gal/in.} \\ = 50 \text{ gal} / 47.85 = 1.05'' \text{ or } 0.09'$$

$$\therefore \text{pump on elevation (B) = (A) + 0.09} \\ = 506.95 + 0.09 = 507.04$$

Pump Sizing

1. Calculate dynamic head

$$\text{Total pipe length} = 520'$$

$$\text{Total no. of fittings} = 9 \text{ bends} + 1 \text{ reducer} = 10 = 25' \text{ equiv. length}$$

$$\text{Assume 2 valves} = 40' \text{ equivalent length.}$$

$$\text{Total effective pipe length} = 520 + 25 + 40 = 585'$$

Maintain 2'/sec velocity in 2" ϕ pipe.

Minimum GPM reqd. is 21 gpm. Use 25 gpm.

$$\text{Friction loss in 2" } \phi \text{ pipe, @ 25 gpm} = 1.29 \text{ ft}/100 \text{ ft}$$

$$\text{Dynamic head} = (585 \times 1.29) / 100 = 7.55'$$

2. Calculate static head.

$$\text{Invert at existing 4" SHC stub} = 526.43$$

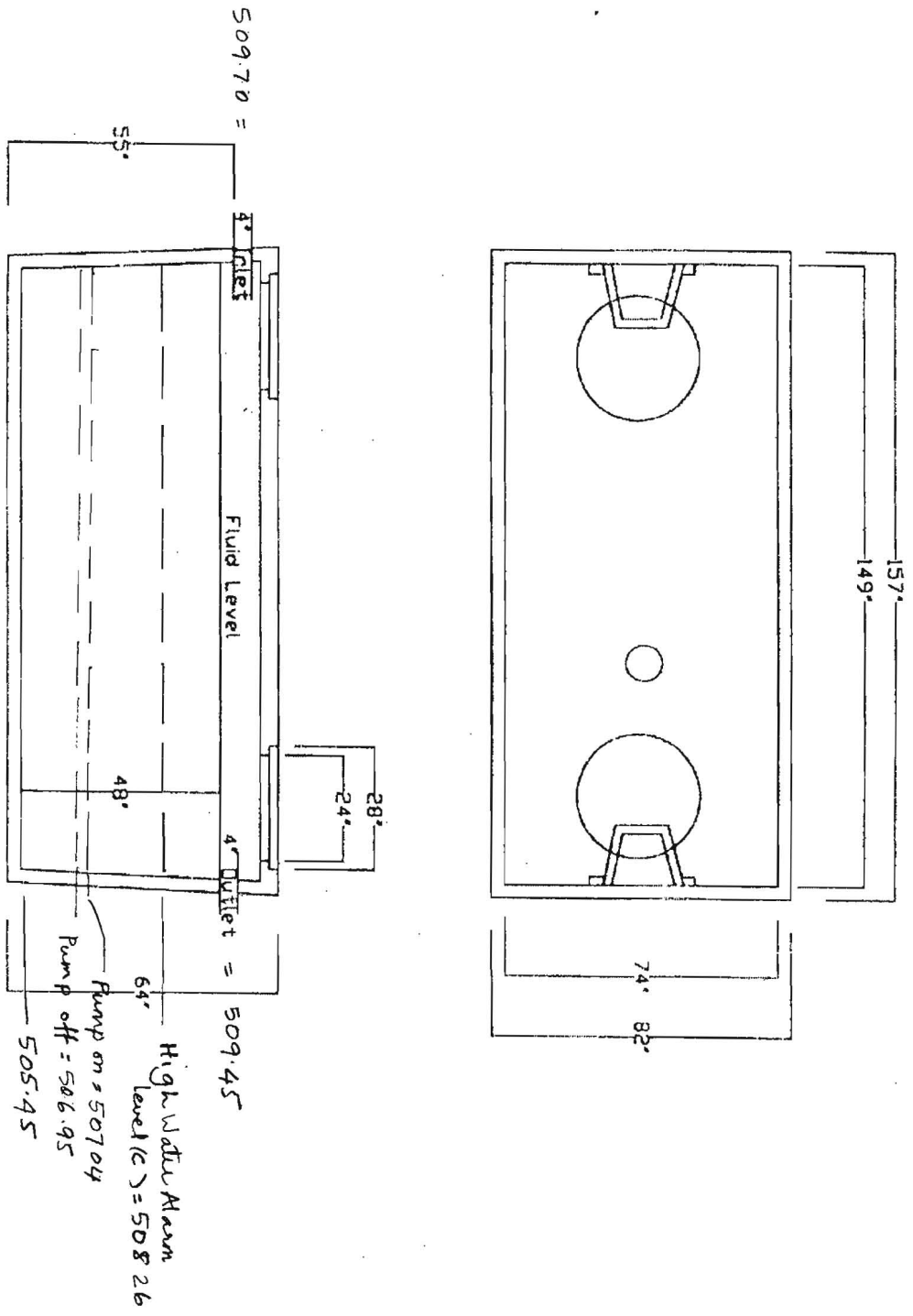
$$\text{pump off elevation (A)} = 506.95$$

$$\text{Static head} = 526.43 - 506.95 = 19.48'$$

$$\text{Total head loss} = \text{static head} + \text{dynamic head} = 19.48 + 7.55 = 27.03'$$

Based on pump curves, select 0.15 hp pump
[Model WE 05 H]

1500 Gallon Top Seam Septic Tank



BABYLON VAULT COMPANY, INC.

925 Wakefield Valley Road
 New Windsor, MD. 21776
 Phone # 410-848-0393
 Fax # 410-848-3555



FEATURES

Impeller: Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

Casing: Cast iron volute type for maximum efficiency. 2" NPT discharge.

Mechanical Seal: Silicon Carbide vs. Silicon Carbide sealing faces. Stainless steel metal parts, BUNA-N elastomers.

Shaft: Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

Fasteners: 300 series stainless steel.

Capable of running dry without damage to components.

Designed for continuous operation when fully submerged.

EXTENDED WARRANTY AVAILABLE FOR RESIDENTIAL APPLICATIONS.

WE Series

Model 3885

SUBMERSIBLE EFFLUENT PUMPS

Wastewater

APPLICATIONS

Specifically designed for the following uses:

- Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

SPECIFICATIONS

Pump

- Solids handling capabilities: $\frac{3}{4}$ " maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

MOTORS

- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
- Class B insulation on $\frac{1}{3}$ - 1 $\frac{1}{2}$ HP models.
- Class F insulation on 2 HP models.

Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.

- SJTOW or STOW severe duty oil and water resistant power cords.
- $\frac{1}{3}$ - 1 HP models have NEMA three prong grounding plugs.
- 1 $\frac{1}{2}$ HP and larger units have bare lead cord ends.

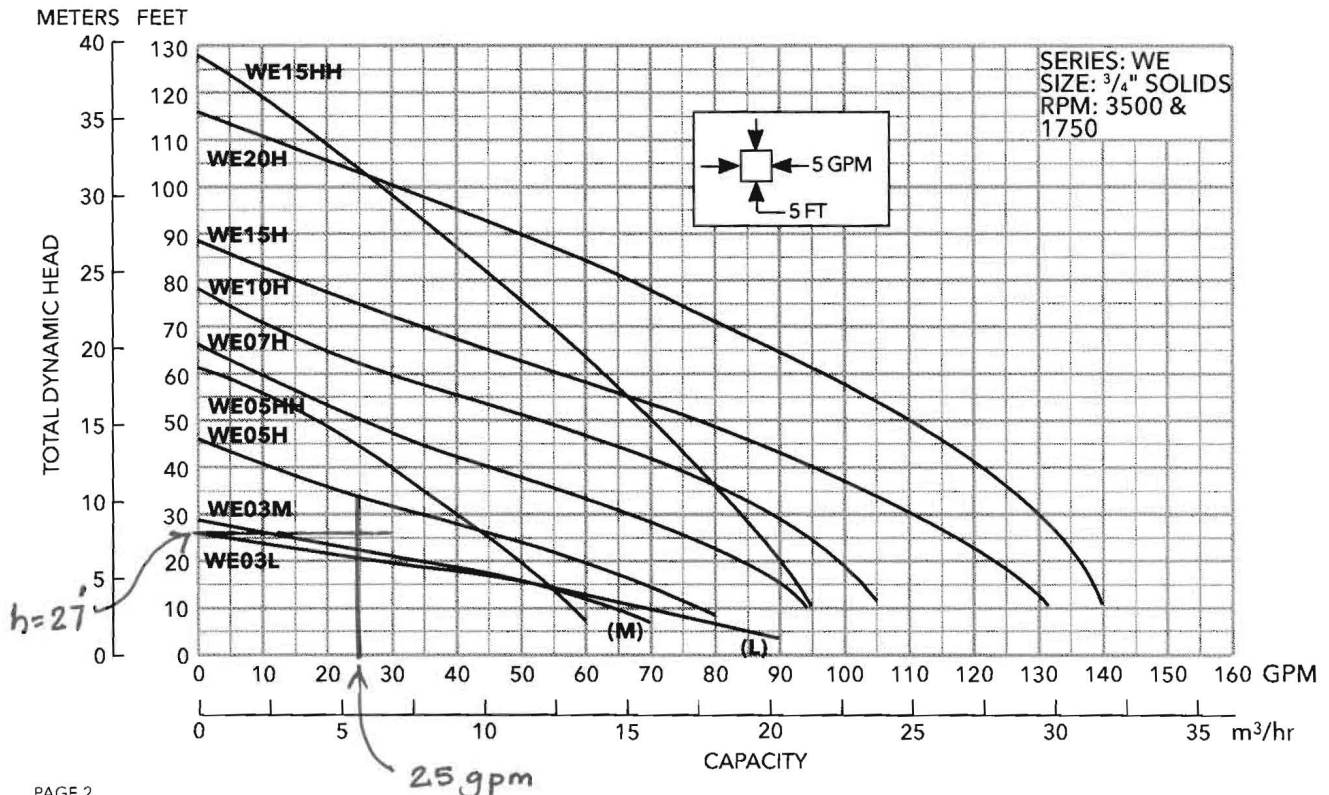
Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.
- Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
- Bearings: Upper and lower heavy duty ball bearing construction.
- Power Cable: Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- O-ring: Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS



Tested to UL 778 and CSA 22.2 108 Standards
By Canadian Standards Association File #LR38549



Wastewater

MODELS

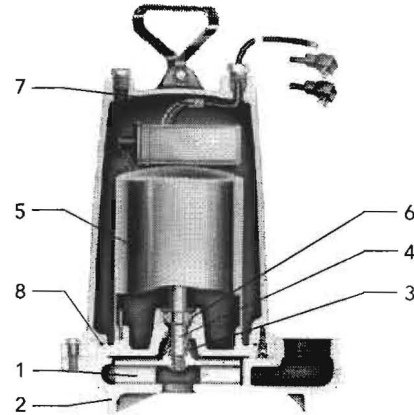
| Order Number | HP | Phase | Volts | RPM | Impeller Diameter (in.) | Maximum Amps | Locked Rotor Amps | KVA Code | Full Load Efficiency % | Resistance Start | Resistance Line-Line | Power Cable Size | Weight (lbs.) | | | | | | | | |
|--------------|------|-------|-------|------|-------------------------|--------------|-------------------|----------|------------------------|------------------|----------------------|------------------|---------------|------|------|------|------|------|------|------|-----|
| WE0311L | 0.33 | 1 | 115 | 1750 | 5.38 | 10.7 | 30.0 | M | 54 | 11.9 | 1.7 | 16/3 | 56 | | | | | | | | |
| WE0318L | | | 208 | | | 6.8 | 19.5 | K | 51 | 9.1 | 4.2 | | | | | | | | | | |
| WE0312L | | | 230 | | | 4.9 | 14.1 | L | 53 | 14.5 | 8.0 | | | | | | | | | | |
| WE0311M | | | 115 | | | 10.7 | 30.0 | M | 54 | 11.9 | 1.7 | | | | | | | | | | |
| WE0318M | | | 208 | | | 6.8 | 19.5 | K | 51 | 9.1 | 4.2 | | | | | | | | | | |
| WE0312M | | | 230 | | | 4.9 | 14.1 | L | 53 | 14.5 | 8.0 | | | | | | | | | | |
| WE0511H | 0.5 | 1 | 115 | 3450 | 3.56 | 14.5 | 46.0 | M | 54 | 7.5 | 1.0 | 14/3 | 60 | | | | | | | | |
| WE0518H | | | 208 | | | 8.1 | 31.0 | K | 68 | 9.7 | 2.4 | 16/3 | 60 | | | | | | | | |
| WE0512H | | | 230 | | | 7.3 | 34.5 | M | 53 | 9.6 | 4.0 | 14/4 | 60 | | | | | | | | |
| WE0538H | | | 3 | | | 200 | 4.9 | 22.6 | R | 68 | NA | | | 3.8 | | | | | | | |
| WE0532H | | | | | | 230 | 3.3 | 18.8 | R | 70 | NA | | | 5.8 | | | | | | | |
| WE0534H | | | | | | 460 | 1.7 | 9.4 | R | 70 | NA | 23.2 | | | | | | | | | |
| WE0537H | 575 | 1.4 | 7.5 | R | 62 | NA | 35.3 | 14/3 | 60 | | | | | | | | | | | | |
| WE0511HH | 1 | 115 | 14.5 | 46.0 | M | 54 | 7.5 | | | 1.0 | | | | | | | | | | | |
| WE0518HH | | 208 | 8.1 | 31.0 | K | 68 | 9.7 | | | 2.4 | | | | | | | | | | | |
| WE0512HH | | 230 | 7.3 | 34.5 | M | 53 | 9.6 | | | 4.0 | | | | | | | | | | | |
| WE0538HH | 3 | 200 | 4.9 | 22.6 | R | 68 | NA | | | 3.8 | 14/4 | 60 | | | | | | | | | |
| WE0532HH | | 230 | 3.6 | 18.8 | R | 70 | NA | | | 5.8 | | | | | | | | | | | |
| WE0534HH | | 460 | 1.8 | 9.4 | R | 70 | NA | 23.2 | | | | | | | | | | | | | |
| WE0537HH | 575 | 1.5 | 7.5 | R | 62 | NA | 35.3 | 14/3 | 70 | | | | | | | | | | | | |
| WE0718H | 0.75 | 1 | 208 | 4.06 | 11.0 | 31.0 | K | | | 68 | 9.7 | 2.4 | 14/3 | 70 | | | | | | | |
| WE0712H | | | 230 | | | | | | | | | | | | 10.0 | 27.5 | J | 65 | 12.2 | 2.7 | |
| WE0738H | | | 3 | | | | | | | | | | | | 200 | 6.2 | 20.6 | L | 64 | NA | 5.7 |
| WE0732H | | 230 | | | | | | | | | | | 5.4 | | 15.7 | K | 68 | NA | 8.6 | 14/4 | 70 |
| WE0734H | | 460 | | | | | | | | | | | 2.7 | | 7.9 | K | 68 | NA | 34.2 | | |
| WE0737H | | 575 | 2.2 | | | | | 9.9 | L | | | | 78 | | NA | 26.5 | | | | | |
| WE1018H | 1 | 1 | 208 | 3450 | 4.44 | 14.0 | 59.0 | K | 68 | 9.3 | 1.1 | 14/3 | 70 | | | | | | | | |
| WE1012H | | | 230 | | | | | | | | | | | 12.5 | 36.2 | J | 69 | 10.3 | 2.1 | | |
| WE1038H | | | 3 | | | | | | | | | | | 200 | 8.1 | 37.6 | M | 77 | NA | 2.7 | |
| WE1032H | | 230 | | | | | | | | | | 7.0 | | 24.1 | L | 79 | NA | 4.1 | 14/4 | 70 | |
| WE1034H | | 460 | | | | | | | | | | 3.5 | | 12.1 | L | 79 | NA | 16.2 | | | |
| WE1037H | | 575 | 2.8 | | | | | | | | | 9.9 | | L | 78 | NA | 26.5 | | | | |
| WE1518H | 1.5 | 1 | 208 | 3450 | 4.56 | 17.5 | 59.0 | K | 68 | 9.3 | 1.1 | 14/3 | 80 | | | | | | | | |
| WE1512H | | | 230 | | | | | | | | | | | 15.7 | 50.0 | H | 68 | 11.3 | 1.6 | | |
| WE1538H | | | 3 | | | | | | | | | | | 200 | 10.6 | 40.6 | K | 79 | NA | 1.9 | |
| WE1532H | | 230 | | | | | | | | | | 9.2 | | 31.7 | K | 78 | NA | 2.9 | 14/4 | 80 | |
| WE1534H | | 460 | | | | | | | | | | 4.6 | | 15.9 | K | 78 | NA | 11.4 | | | |
| WE1537H | | 575 | 3.7 | | | | | | | | | 13.1 | | K | 75 | NA | 16.9 | | | | |
| WE1518HH | 1.5 | 1 | 208 | 3450 | 5.50 | 17.5 | 59.0 | K | 68 | 9.3 | 1.1 | 14/3 | 80 | | | | | | | | |
| WE1512HH | | | 230 | | | | | | | | | | | 15.7 | 50.0 | H | 68 | 11.3 | 1.6 | | |
| WE1538HH | | | 3 | | | | | | | | | | | 200 | 10.6 | 40.6 | K | 79 | NA | 1.9 | |
| WE1532HH | | 230 | | | | | | | | | | 9.2 | | 31.7 | K | 78 | NA | 2.9 | 14/4 | 80 | |
| WE1534HH | | 460 | | | | | | | | | | 4.6 | | 15.9 | K | 78 | NA | 11.4 | | | |
| WE1537HH | | 575 | 3.7 | | | | | | | | | 13.1 | | K | 75 | NA | 16.9 | | | | |
| WE2012H | 2 | 1 | 230 | 3450 | 5.38 | 18.0 | 49.6 | F | 78 | 3.2 | 1.2 | 14/3 | 83 | | | | | | | | |
| WE2038H | | | 200 | | | | | | | | | | | 12.0 | 42.4 | K | 78 | NA | 1.7 | | |
| WE2032H | | | 3 | | | | | | | | | | | 230 | 11.6 | 42.4 | K | 78 | NA | 1.7 | |
| WE2034H | | 460 | | | | | | | | | | 5.8 | | 21.2 | K | 78 | NA | 6.6 | 14/4 | 83 | |
| WE2037H | | 575 | | | | | | | | | | 4.7 | | 16.3 | L | 78 | NA | 10.5 | | | |

PERFORMANCE RATINGS (gallons per minute)

| Order No. | WE-03L | WE-03M | WE-05H | WE-07H | WE-10H | WE-15H | WE-05HH | WE-15HH | WE-20H | |
|--------------------------|--------|--------|--------|--------|--------|--------|---------|---------|--------|------|
| Total Head Feet of Water | HP | 1/3 | 1/3 | 1/2 | 3/4 | 1 | 1 1/2 | 1/2 | 1 1/2 | 2 |
| | RPM | 1750 | 1750 | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 |
| | 5 | 86 | - | - | - | - | - | - | - | - |
| | 10 | 70 | 63 | 78 | 94 | - | - | 58 | 95 | - |
| | 15 | 52 | 52 | 70 | 90 | 103 | 128 | 53 | 93 | 138 |
| | 20 | 27 | 35 | 60 | 83 | 98 | 123 | 49 | 90 | 136 |
| | 25 | 5 | 15 | 40 | 76 | 94 | 117 | 45 | 87 | 133 |
| | 30 | - | - | 35 | 67 | 88 | 110 | 40 | 83 | 130 |
| | 35 | - | - | 22 | 57 | 82 | 103 | 35 | 80 | 126 |
| | 40 | - | - | - | 45 | 74 | 95 | 30 | 77 | 121 |
| | 45 | - | - | - | 35 | 64 | 86 | 25 | 74 | 116 |
| | 50 | - | - | - | 25 | 53 | 77 | - | 70 | 110 |
| | 55 | - | - | - | - | 40 | 67 | - | 66 | 103 |
| | 60 | - | - | - | - | 30 | 56 | - | 63 | 96 |
| | 65 | - | - | - | - | 20 | 45 | - | 58 | 89 |
| | 70 | - | - | - | - | - | 35 | - | 55 | 81 |
| | 75 | - | - | - | - | - | 25 | - | 51 | 74 |
| | 80 | - | - | - | - | - | - | - | 47 | 66 |
| | 90 | - | - | - | - | - | - | - | 37 | 49 |
| | 100 | - | - | - | - | - | - | - | 28 | 30 |

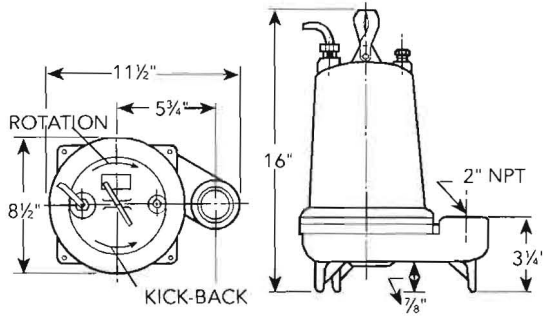
COMPONENTS

| Item No. | Description |
|----------|-----------------|
| 1 | Impeller |
| 2 | Casing |
| 3 | Mechanical Seal |
| 4 | Motor Shaft |
| 5 | Motor |
| 6 | Ball Bearings |
| 7 | Power Cable |
| 8 | Casing O-Ring |



DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)



Xylem, Inc.
 2881 East Bayard Street Ext., Suite A
 Seneca Falls, NY 13148
 Phone: (866) 325-4210
 Fax: (888) 322-5877
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Howard County
Attention: Mark
Fax# 410-313-2691

Dear Mark,

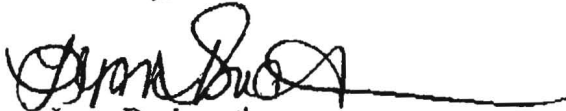
AND Pres Par A

NVHomes will monitor the tank at Maple Ridge – lots 4-10 on weekly bases for pumping.

We will not settle any homes until the entire system is approved for use

Any questions please contact Chris Spina, Project Manager at 443-309-7835.

Sincerely,


Lynn Duckworth
Office Manager
NVHomes

ACCEPTED
MR 7/31/03
NO ICOPS UNTIL
SHARED SYSTEM
APPROVED FOR SERVICE

6085 Marshalee Drive • Suite 130 • Elkridge, MD 21075 • (410) 379-5956 • FAX (410) 379-2430

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