



**Bureau of Environmental Health**  
 8930 Stanford Boulevard, Columbia, MD 21045  
 Main: 410-313-2640 | Fax: 410-313-2648  
 TDD 410-313-2323 | Toll Free 1-866-313-6300  
[www.hchealth.org](http://www.hchealth.org)  
 Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

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

RECEIPT DATE: 2/23/2024 **ONSITE SEWAGE DISPOSAL SYSTEM** P 575798

APPROVAL DATE: 3/13/2024 **PERMIT: TANK REPL ONLY - REPAIR** A \_\_\_\_\_

PROPERTY ADDRESS: 6446 Elibank Drive

SUBDIVISION: Powell Property LOT: 1 TAX ID: 01-213962

CONTRACTOR: Legacy Septic, LLC EMAIL: dleister@legacyseptic.com

CONTRACTOR ADDRESS: 2914 Hanover Pike, Manchester, MD 21102 PHONE: 301-370-4121

PROPERTY OWNER: Anna Miller EMAIL: \_\_\_\_\_

OWNER ADDRESS: Same as above PHONE: 410-428-5269

SEPTIC TANK SIZE: 1500g (plastic) PUMP SIZE: n/a PUMP TANK CAPACITY: n/a

Tank supplier: AK Industries

DISTRIBUTION SYSTEM:  GRAVITY  DRIP DISPERSAL BEDROOMS: 4 APPLICATION RATE: \_\_\_\_\_

|           |                                       |                                       |
|-----------|---------------------------------------|---------------------------------------|
| TRENCHES: | LINEAR FEET REQUIRED: <u>n/a</u>      | INLET DEPTH: _____                    |
|           | TRENCH WIDTH: _____                   | MAXIMUM BOTTOM DEPTH: _____           |
|           | MINIMUM SPACE BETWEEN TRENCHES: _____ | EFFECTIVE AREA BEGINNING DEPTH: _____ |

LOCATION: **TANK TO BE STAKED BY INSTALLER PER APPROVED DESIGN PLAN**

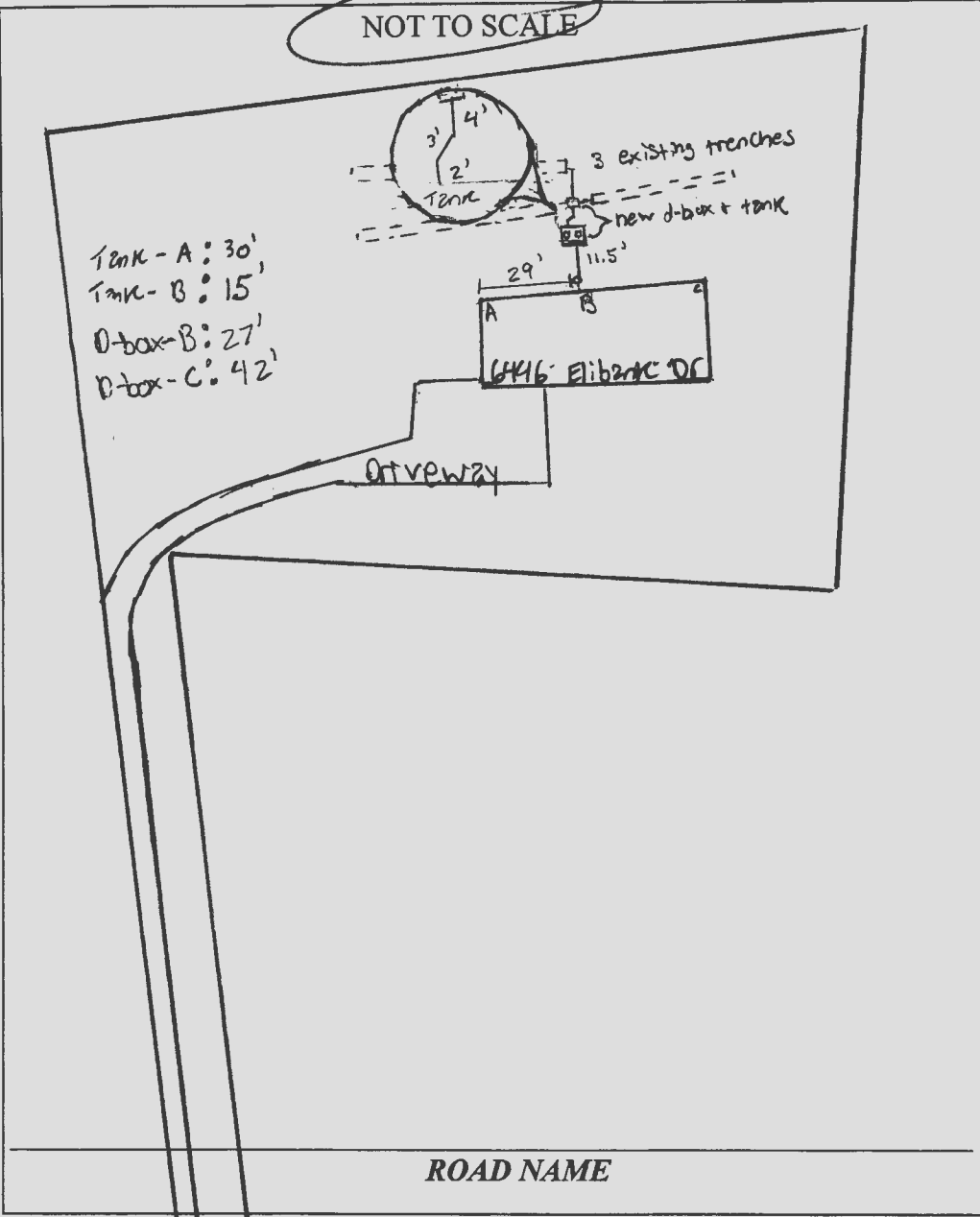
NOTES: **Install new plastic per approved design plans. MUST FOLLOW INSTALLATION INSTRUCTIONS PER AK INDUSTRIES**

ISSUED BY: Kevin M. Wolf, L.E.H.S. ISSUE DATE: 3/7/2024 EXPIRATION DATE: 3/7/2025

- NOTE: **CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION**
- NOTE: **CONTRACTOR REGISTERED WITH THE STATE OF MD ON-SITE WASTEWATER PROFESSIONALS BOARD: CONFIRMED**
- NOTE: **CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING**
- NOTE: **STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.**
- NOTE: **WATERTIGHT SEPTIC TANKS REQUIRED**
- NOTE: **ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADE FROM ANY WATER WELL**
- NOTE: **MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS**
- NOTE: **AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM**  
 ELECTRICAL PERMIT ISSUED E N/A
- NOTE: **THE HCHD DOES NOT WARRANT ANY SYSTEM AND CANNOT GUARANTEE THE PERFORMANCE OF THIS SYSTEM AS DESIGNED. BY ACCEPTING THIS PERMIT, THE OWNER AND/OR APPLICANT ACKNOWLEDGE THAT THE SPECIFICATIONS DETAILED IN THIS DESIGN ARE ONE POSSIBLE OPTION AND THAT THE HCHD WILL REVIEW OTHER PROPOSALS. YOU HAVE THE OPTION TO SEEK THE ADVICE OF A QUALIFIED DESIGN CONSULTANT OR PROFESSIONAL ENGINEER FOR FURTHER GUIDANCE.**
- NOTE: **AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.**
- NOTE: **MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA**

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.  
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.  
 CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

NOT TO SCALE



| TRENCH/DRAINFIELD DATA  |                      |            |
|-------------------------|----------------------|------------|
| WIDTH                   | INLET                | BOTTOM     |
| <u>ex.</u>              | <u>ex.</u>           | <u>ex.</u> |
| NUMBER OF TRENCHES      | <u>3 ex.</u>         |            |
| TOTAL LENGTH            | <u>existing</u>      |            |
| ABSORPTION AREA         | <u>exist n/a</u>     |            |
| DISTRIBUTION BOX LEVEL  | <u>yes</u>           |            |
| DISTRIBUTION BOX BAFFLE | <u>_____</u>         |            |
| DISTRIBUTION BOX PORT   | <u>yes + Manhole</u> |            |

| SEPTIC TANK DATA                  |                                   |
|-----------------------------------|-----------------------------------|
| SEPTIC TANK 1 LEVEL               | <u>yes</u>                        |
| MANUFACTURER                      | <u>AK Industries</u>              |
| CAPACITY                          | <u>1500</u> GAL                   |
| SEAM LOC                          | <u>_____</u>                      |
| TANK LID DEPTH                    | <u>2' - 2.5'</u>                  |
| BAFFLES                           | <u>4" front &amp; back baffle</u> |
| BAFFLE FILTER                     | <u>_____</u>                      |
| MANHOLE LOC                       | <u>Front &amp; back</u>           |
| 6" PORT LOC                       | <u>_____</u>                      |
| WATERTIGHT TEST                   | <u>_____</u>                      |
| SLOTTED                           | <u>yes</u>                        |
| DATE ON LID                       | <u>_____</u>                      |
| PUMP/SEPTIC TANK LEVEL <u>N/A</u> |                                   |
| MANUFACTURER                      | <u>_____</u>                      |
| CAPACITY                          | <u>_____</u> GAL                  |
| SEAM LOC                          | <u>_____</u>                      |
| TANK LID DEPTH                    | <u>_____</u>                      |
| BAFFLES                           | <u>_____</u>                      |
| BAFFLE FILTER                     | <u>_____</u>                      |
| MANHOLE LOC                       | <u>_____</u>                      |
| 6" PORT LOC                       | <u>_____</u>                      |
| WATERTIGHT TEST                   | <u>_____</u>                      |
| SLOTTED                           | <u>✓</u>                          |
| DATE ON LID                       | <u>_____</u>                      |

SEPTIC CONTRACTOR ONSITE INSTALLING SYTEM: \_\_\_\_\_  
 SEPTIC CONTRACTOR ONSITE LICENSED WITH THE STATE OF MD: YES/NO \_\_\_\_\_

PRE-CONSTRUCTION NOTES:  
3/12/2024. Design plan given & permits released (see)

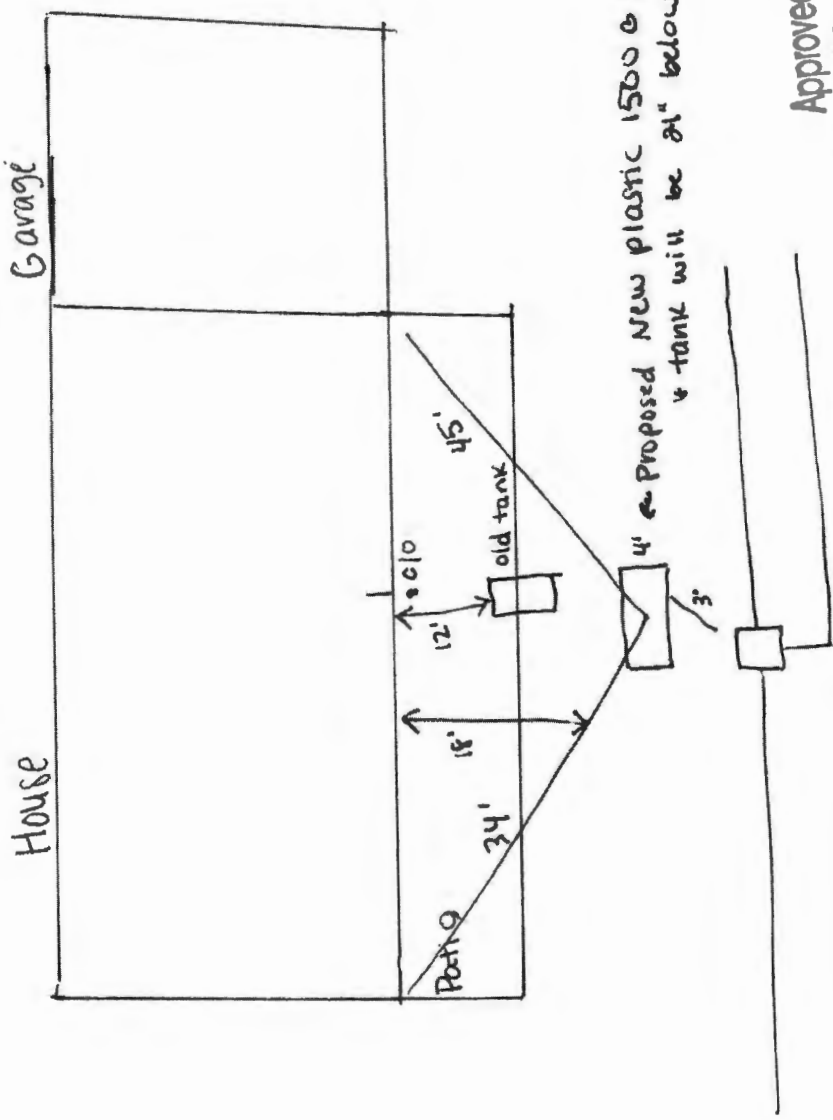
| CONTROL PANEL DATA                 |              |
|------------------------------------|--------------|
| CONTROL PANEL HEIGHT (MIN 30")     | <u>_____</u> |
| INSPECTION DATE                    | <u>_____</u> |
| INSPECTION: PASS/FAIL (CIRCLE ONE) | <u>_____</u> |

INSTALLATION NOTES:  
3/13/2024 - Contractor onsite for inspection. Line coming from house backfilled, saw picture of line. SMD 40 PVC used. CID seen near house. Manufacturer has 4" front & back baffle installed. D-box has no baffle installed. OK to backfill. (S)

FINAL INSPECTOR S. Page DATE OF APPROVAL 3/13/2024

6446 Elibank Drive - Tank Replacement

Legacy 04/11/11  
2914 Hanover Pike  
Manchester, MD 21072



Approved Septic System Plan  
Howard County Health Department

3/2/2024  
Date

*[Signature]*  
Signature

- plastic tank due to access
- Remove deck to pump, crush & fill old tank
- \* No wells within 100'  
- Public water

Anna & Chase Miller  
6446 Elibank Dr. (4 Bedroom)  
Elkridge MD 21075  
410-428-5209

## Wolf, Kevin

---

**From:** Wolf, Kevin  
**Sent:** Wednesday, March 6, 2024 5:09 PM  
**To:** Danielle Leister  
**Subject:** RE: 6446 Elibank Drive

Danielle,  
Few things:

1. I need the total number of bedrooms to be labeled on the plan
2. I need the tank depth, inlet and outlet depth for the proposed tank
3. Is the tank going in sideways?
4. I need your guys information on the plan
5. Make sure you label the plan with a purpose statement. (i.e. tank replacement only for...)
6. Label what is to be "existing".

Thanks,

Kevin M. Wolf, LEHS, REHS/RS  
Groundwater Mgmt. Sec. Supervisor  
Well & Septic Program  
Howard County Health Department  
8930 Stanford Blvd.  
Columbia, MD 21045  
410-313-2645 (Office)  
410-313-2648 (Fax)  
[www.hchealth.org](http://www.hchealth.org)  
[kwolf@howardcountymd.gov](mailto:kwolf@howardcountymd.gov)



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**From:** Danielle Leister <dleister@legacyseptic.com>  
**Sent:** Wednesday, March 6, 2024 4:28 PM  
**To:** Wolf, Kevin <KWolf@howardcountymd.gov>  
**Subject:** RE: 6446 Elibank Drive

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Any update?

*Danielle Leister*

Legacy Septic & Excavation LLC  
410-840-8766  
240-372-2744 – text  
[dleister@legacyseptic.com](mailto:dleister@legacyseptic.com)  
[www.legacyseptic.com](http://www.legacyseptic.com)



**Service oriented. Community driven.**

**From:** Wolf, Kevin <KWolf@howardcountymd.gov>  
**Sent:** Monday, March 4, 2024 3:19 PM  
**To:** Danielle Leister <dleister@legacyseptic.com>  
**Subject:** RE: 6446 Elibank Drive

Hi Danielle,

I have reviewed the application for the tank replacement. Paperwork looks good. However, I do not see a site plan with the proposal you are requesting. Please submit a drawing showing all necessary property components, distances, elevations, property lines, etc. It does not need to be to scale but does need to match what's existing and what you are proposing. Make sure you include the property owner info, total number of bedrooms, your contact information, information on the new septic tank (i.e. size, manufacturer, etc), and information about the existing system (i.e. trenches, inverts, depth, etc.). All distances from the proposed tank should be from adjacent property lines.

Kevin

**From:** Danielle Leister <dleister@legacyseptic.com>  
**Sent:** Monday, March 4, 2024 2:51 PM  
**To:** Wolf, Kevin <KWolf@howardcountymd.gov>  
**Subject:** RE: 6446 Elibank Drive

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Any update on this?

*Danielle Leister*

Legacy Septic & Excavation LLC

410-840-8766

240-372-2744 – text

[dleister@legacyseptic.com](mailto:dleister@legacyseptic.com)

[www.legacyseptic.com](http://www.legacyseptic.com)



**Service oriented. Community driven.**

**From:** Wolf, Kevin <[KWolf@howardcountymd.gov](mailto:KWolf@howardcountymd.gov)>

**Sent:** Friday, March 1, 2024 4:23 PM

**To:** Danielle Leister <[dleister@legacyseptic.com](mailto:dleister@legacyseptic.com)>

**Subject:** Automatic reply: 6446 Elibank Drive

Hello,

I am currently in the field with limited access to email. I will respond upon my return. If you need immediate assistance, please contact our program secretary 410-313-1771.

Thanks

Kevin M. Wolf, L.E.H.S., Supervisor

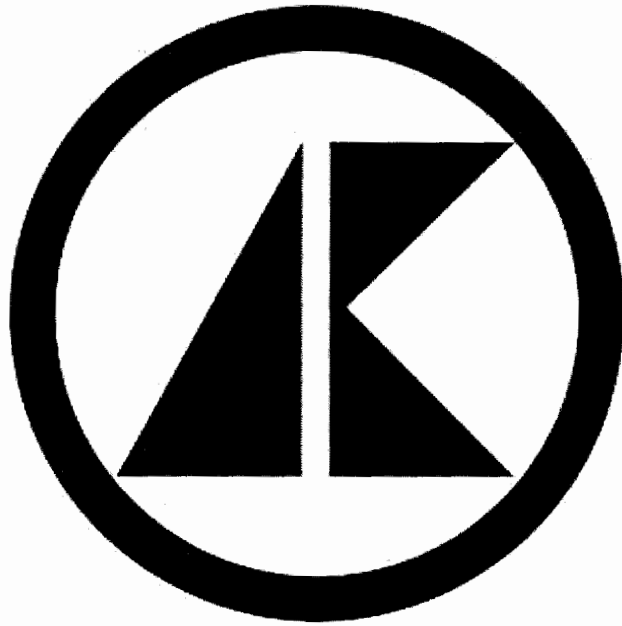
Howard County Health Department

Bureau of Environmental Health

Groundwater Mgmt. Sec.

410-313-2645

To be used for  
6446 Elbow Drive  
Tank Replacement



**AK INDUSTRIES**

**SEPTIC**

**TRAINING**

**MANUAL**

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## INTRODUCTION



*AK Industries, Inc. is dedicated to providing great quality polyethylene products to consumers. Poly tanks have become the tank to turn to and more popular than ever. This is due to their ease of transportation, water tight design, and structural integrity. With sizes from 300 to 1500 gallon capacities available, there is a tank for virtually any job. Besides having approvals in every region of the country, we offer a wide variety of tank options and accessories including risers, baffles, double lid systems and much more.*

*AK Industries, Inc. has grown into being a leader in fiberglass and polyethylene products for the wastewater industry. Located in Plymouth, Indiana, we have been in business for over 30 years and are looking forward to a bright future. AK currently employs 115 people and they do their work in over 150,000 square feet of space. We realize that our next 30 years of success will depend on our continued commitment to YOU our customer. Let us prove that we can supply you with customer service, quality products, and value. Let us prove we are still the "Best Around Underground."*

# SECTION 1: SEPTIC SYSTEM DESCRIPTION

## 1.1 SEPTIC SYSTEM COMPONENTS

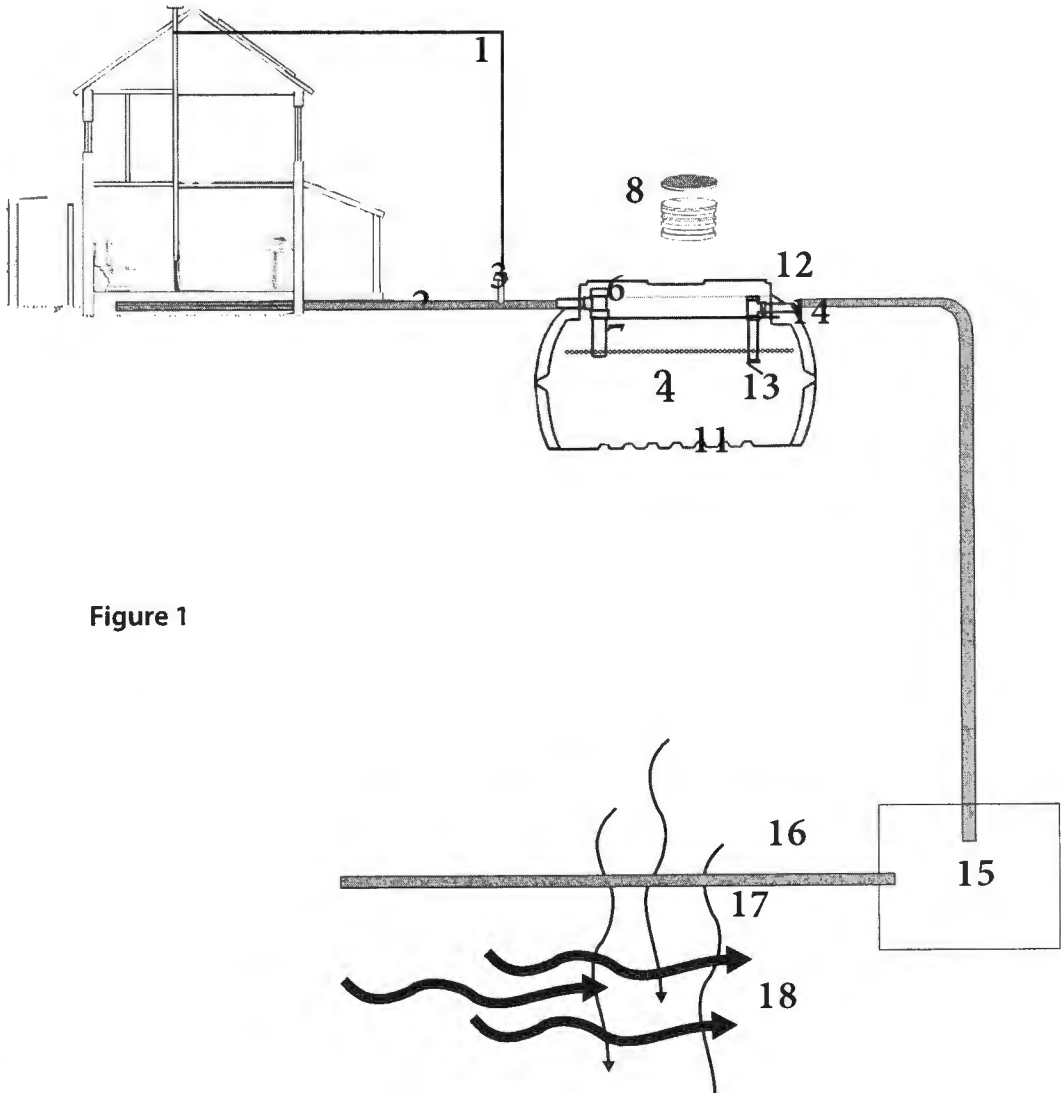


Figure 1

- |                              |                               |
|------------------------------|-------------------------------|
| 1. House Vent                | 10. Liquid Level              |
| 2. Septic Pipe               | 11. Settled Solids            |
| 3. Optional Septic Pipe Vent | 12. Outlet Access             |
| 4. Septic Tank               | 13. Outlet Tee                |
| 5. Inlet Tee                 | 14. Discharge Pipe            |
| 6. Inlet Access              | 15. Distribution Box          |
| 7. Access Risers             | 16. Drain field               |
| 8. Access Lids               | 17. Percolation/ Purification |
| 9. Floating Solids           | 18. Groundwater               |

# SECTION 1: SEPTIC SYSTEM DESCRIPTION

## 1.2 SEPTIC SYSTEM PROCESS FLOW

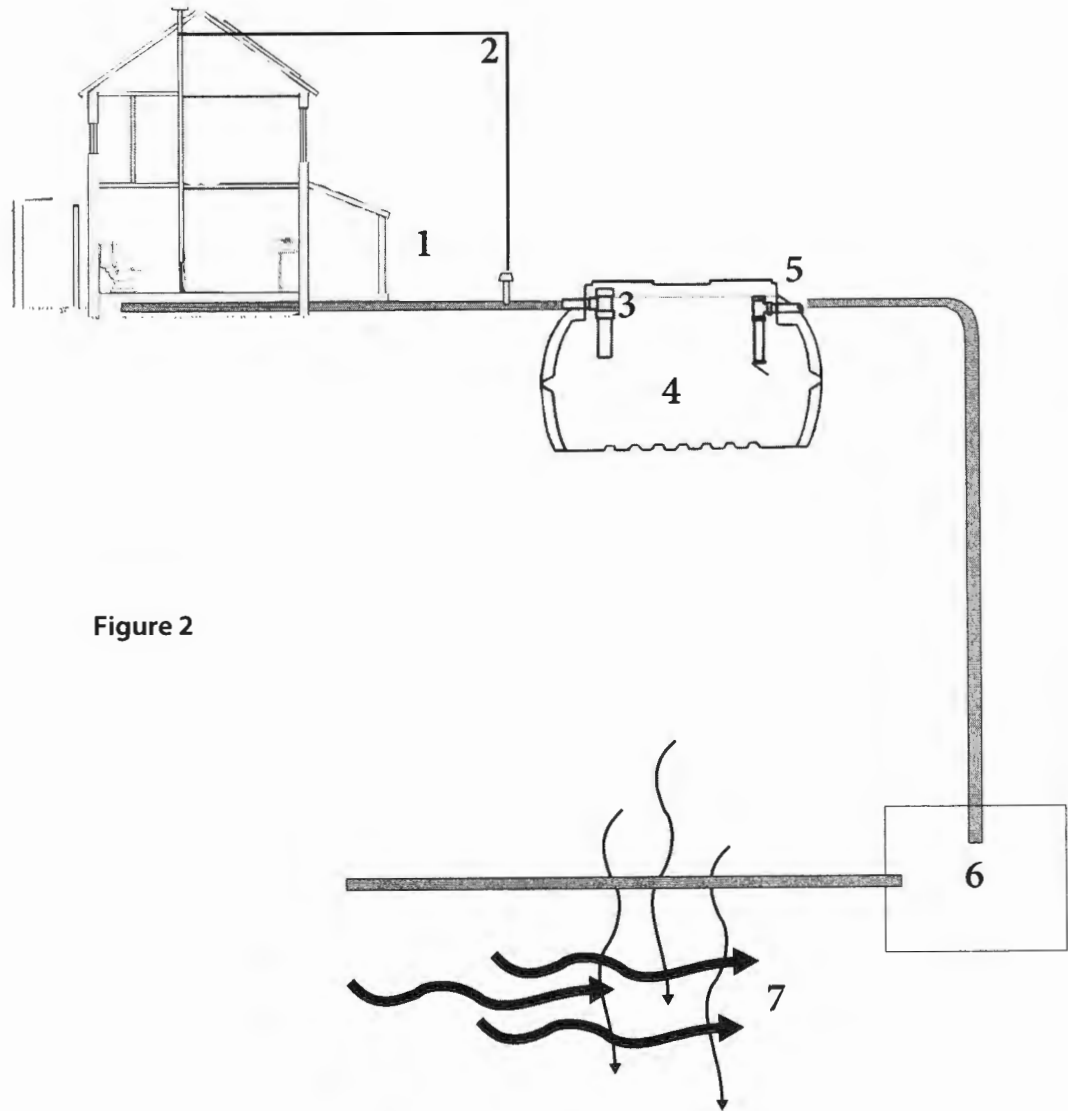


Figure 2

1. Wastewater flows from the home via the septic pipe.
2. Gas venting happens via the home vent or via the optional venting within the septic pipe.
3. Wastewater enters the septic tank via the inlet baffle and solids either float or settle.
4. Waste is then broken down within the tank by use of anaerobic bacteria.
5. Clear effluent is then discharged gravity via the outlet baffle into the discharge pipe.
6. The effluent then is evenly distributed to the drain field via the distribution box.
7. Water then is percolated and purified through the earth until it is added to the ground water.

# SECTION 1: SEPTIC SYSTEM DESCRIPTION

## 1.3 SEPTIC SYSTEM REQUIREMENTS

Septic systems are very sensitive portions of a whole rejuvenation process of our earth. If waste were allowed to enter our ground water, sickness and disease would plague our populations. It is very imperative to install systems according to Federal, State, and Local regulations. Whether in a rural or urban area, authorities have designed policies to protect all from contamination from septic systems. It is important to become educated on the requirements of installing a septic system in your area.

All localities are different. Some agencies require sizing systems according to home size. Others size them by estimation of water usage via the facilities. There are codes designed to keep your system away from your well or more importantly your neighbors well. For these and many more reasons it is important to contact your local authority and determine what requirements you will be held to. Usually a Local Health Department (LHD) or Pollution Control Agency will have information. AK Industries cannot stress enough the importance of becoming educated prior to purchasing our products to insure you are installing the correct system.

A permit is usually required to install any septic system. If so, details can be found at your Local Health Department. A permit is an approval from the local authority to begin installation of a system. Usually there is a post inspection and then the close of the permit. Installing a system without a permit is unwise and not condoned by AK Industries, Inc. For further information please contact your LHD or AK Industries, Inc. at 574-936-2542.

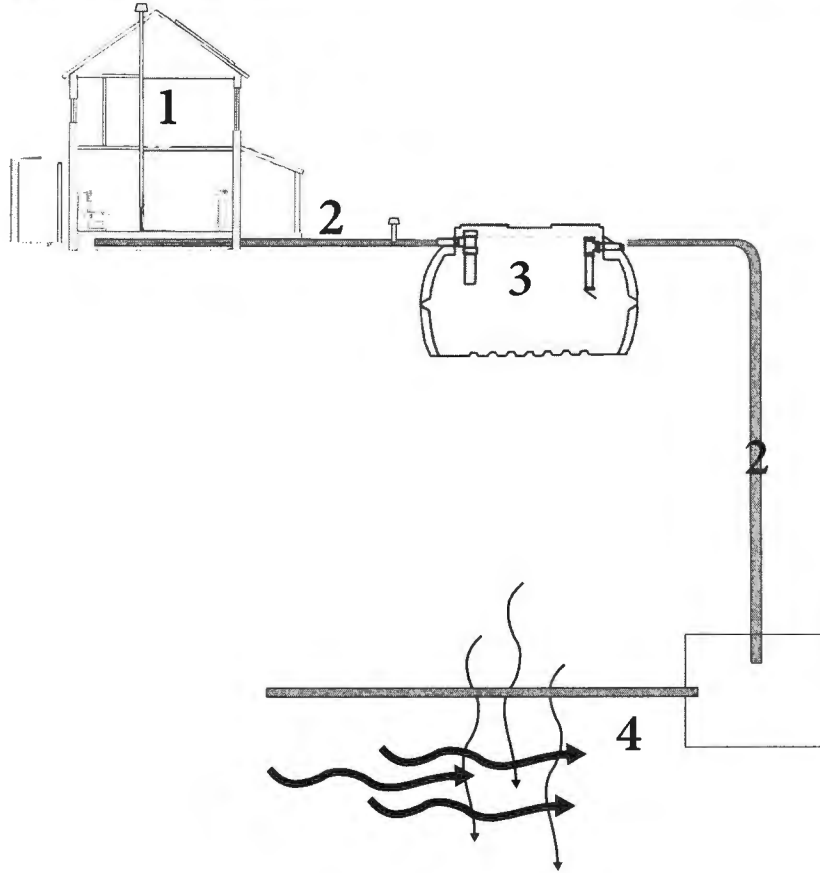
As a last note, septic systems can become dangerous or hazardous. Please use extreme caution if you are going to inspect a system yourself. If one feels the slightest bit uncomfortable about dealing with poisonous flammable gasses or harmful microbes, then it is best to leave procedures to the professionals.

**(Sample Permit next page)**



## SECTION 2: MAINTAINING A SEPTIC SYSTEM

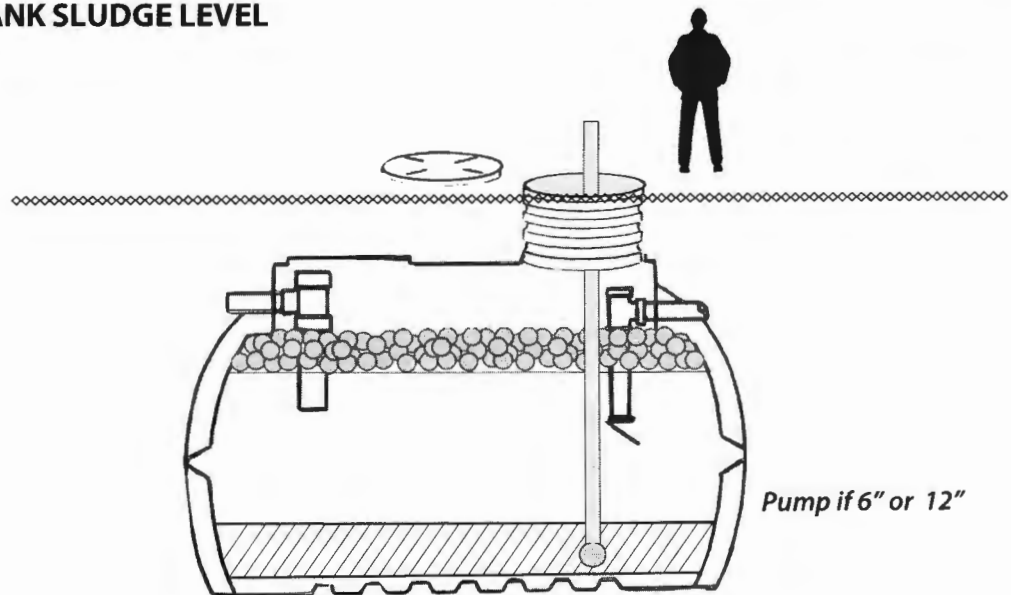
### 2.1 INSPECT HOME AND COMPONENTS



1. Insure that your plumbing and fixtures are in good working order with no leaks. Be sure to inspect; faucets, commodes, sinks, bathtubs, water softeners, washing machines, garbage disposals, water filter systems, sump pumps, etc.
2. Inspect the septic piping for breakage, crimping, or cracks. A good indicator of this is if the soil around the site is saturated. Note: Never drive a vehicle over your septic piping or system what-so-ever.
3. Inspect the tank for any kind of damage. Cracks, dents, and bends are a real good indication that a septic tank may be failing. Note the amount of waste in the tank. Look for anything that should not be in the tank such as; rubber products, sanitary napkins, and the stray toys that a child may have put into the system.
4. Inspect the distribution box and drain field for signs of damage. Usually without running a camera down the system the only way to tell is if the lawn is saturated. Another method is if you seesunken areas of the yard.

## SECTION 2: MAINTAINING A SEPTIC SYSTEM

### 2.2 INSPECT TANK SLUDGE LEVEL



1. Remove tank lid at the inlet side of the access.
2. Assemble sludge judge and insert into tank.
3. Take reading of sludge by pulling up on check valve and removing from tank.
4. Reinstall access lid.

**NOTE:** If floating scum is within 6 inches of the bottom of the outlet tee or sludge is within 12 inches, then it is time to have the tank pumped.

### 2.3 PUMP SLUDGE FROM TANK

1. Remove tank lid at the inlet side of the access.
2. Place hose in tank be cautious not to damage internal components.
3. Use mixer to break-up solids and help pumping process.
4. Pump system no more than half empty and be sure to replenish tank volume with water to avoid floating tank.
5. Reinstall access lid.



## SECTION 3: DO'S AND DON'TS

*(adapted from National Small Flows Clearinghouse & EPA's "A Homeowner's Guide to Septic Systems.")*

### 3.1 DO'S

1. Always check with your Local Health Department for current policies and rules for septic system permitting.
2. Prior to planning your septic system installation educate yourself on proper rules and installation procedures.
3. Be cautious of the use of water softeners, garbage disposals, and pools or hot tubs. These may cause system over-volumization.
4. Be aware of items that may hurt your system such as harsh antibacterial soaps, detergents, or medications.
5. Know the components of your system and have them inspected regularly. A professional that can help with this would be a local septic contractor or pumper.
6. Maintain your system as best as possible to help the longevity of its function. Applying good practices such as water conservancy will increase the life of a system exponentially.

### 3.2 DON'TS

1. Do not work on a septic system if you are uncomfortable or uneducated with the hazards. Safety when it comes to a septic system is number one priority. Systems can become very dangerous atmospheres and should only be dealt with by professionals whom are qualified and trained to handle hazardous gasses and waste.
2. Do not utilize harmful substances in a septic system that may impede the function of the bacteria. Items such as antimicrobial soaps, detergents, and medication can be very harmful to the treatment of waste.
3. Do not allow vehicles to drive over piping or any other components of a system. Costly damage may occur.
4. Do not place items in tank that have no business being there. Items such as; rubber products, feminine hygiene items, toys, and non-degradable products can cause blockages and interrupt the treatment process.

**NOTE: There is great controversy whether microbial additives work. AK Industries, Inc. has no data to neither support nor oppose the benefits of such additives. However, its use is the responsibility of the user and AK Industries, Inc. accepts no liability of how a system is designed or used, this includes the installation and maintenance performed.**

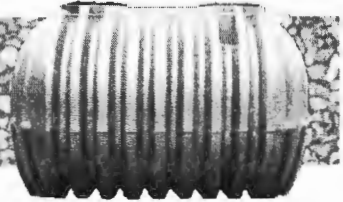
# SECTION 4: SEPTIC AND PUMP TANKS

## 4.1 STANDARD SEPTIC TANKS

### 1500 Gallon

Available with dual compartments

- (2) 20" LIDS
- 6" or 12" STACKABLE RISERS (OPTIONAL)



- (2) 20" LIDS
- 6" or 12" STACKABLE RISERS (OPTIONAL)

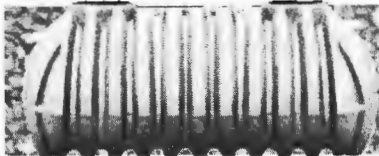
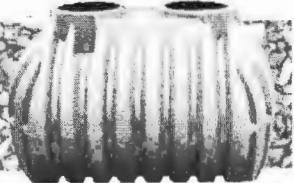
### 1300 Gallon

Available with dual compartments

### 1000 Gallon

Available with dual compartments

- (2) 20" LIDS
- 6" or 12" STACKABLE RISERS (OPTIONAL)



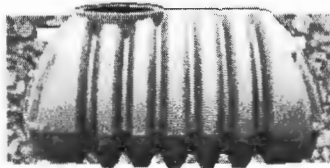
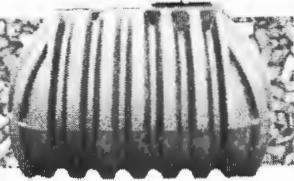
- (2) 20" LIDS
- 6" or 12" STACKABLE RISERS (OPTIONAL)

### 1050 Gallon Low Profile

Available with dual compartments

### 750 Gallon

- (1) 20" & (1) 10" LID
- 6" or 12" x STACKABLE RISERS (OPTIONAL)
- 30" x 10" CUTABLE RISER



### 500 Gallon

### 300 Gallon Pump Tank

(For STEP or Dosing Systems)



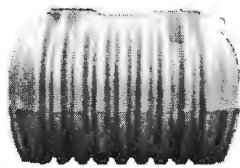
## 4.1 STANDARD SEPTIC TANKS - continued

### NOTES:

- \* Maximum bury depth is 24" to top of tank.
- \* Suitable for light lawn traffic (light lawn tractors no vehicles)
- \* Not to be used as holding or pump tank, gravity only
- \* Failure to adhere to installation instructions will void warranty.
- \* Check local building codes before installation.

| Capacity (GAL) | 300 GAL | 500 GAL | 750 GAL | 1000 GAL | 1050 GAL | 1300 GAL | 1500 GAL |
|----------------|---------|---------|---------|----------|----------|----------|----------|
| LENGTH (IN)    | 56      | 90      | 92      | 102      | 126      | 113      | 113      |
| HEIGHT (IN)    | 52      | 43      | 54      | 63       | 53       | 71       | 71       |
| WIDTH (IN)     | 56      | 62      | 67      | 67       | 66       | 69       | 96       |

## 4.2 AIO (ALL-IN-ONE) SEPTIC TANKS

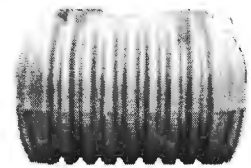


**1300 Gallon**  
Available with dual compartments

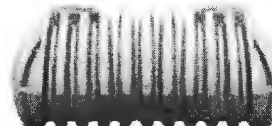
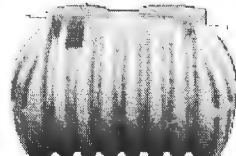


**1500 Gallon**

The 1500-gallon tank also available in AIO style. Not IAPMO approved.



**1000 Gallon**  
Available with dual compartments



**1000 Gallon Low Profile**  
Available with dual compartments



### NOTES:

- » The Low-Profile 1050, Standard 1000, and 1300-gallon AIO septic tanks are IAPMO Z1000-2007 approved.
- » IAPMO approved tanks must be two compartment.
- » No water or gravel backfill necessary.
- » Install AK's NEW All-In-One septic with active, free-flowing soil.
- » All tanks are fitted for a pump vault
- » New green safety lids available.
- » 4' Maximum Burial Depth.

|             | 1000 Gal. | Low Profile 1050 Gal. | 1300 Gal. | 1500 Gal. |
|-------------|-----------|-----------------------|-----------|-----------|
| Length (IN) | 102       | 126                   | 113       | 113       |
| Height (IN) | 63        | 53                    | 69        | 69        |
| Width (IN)  | 67        | 66                    | 69        | 69        |

## 43 PUMP TANKS

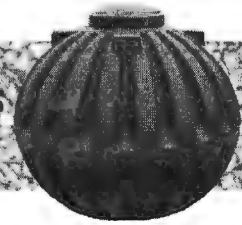
### AK Pump Tank Line

#### 300 Gallon Pump Tank (For STEP or Dosing Systems)

- (1) 20" LID
- 6" or 12" RISERS  
(see Standard)



#### 750 & 1000 Gallon Pump Tanks (For STEP or Dosing Systems)



- (1) 24" LID
- 24" RISERS AVAILABLE IN 1' INCREMENTS UP TO 6'

#### NOTES:

- \* Maximum bury depth is 4' to top of tank.
- \* Recommended minimum maintained fluid level for pumptanks:
  - \* 300 gallon is 6" of fluid
  - \* 750 & 1000 gallon is 20" of fluid
- \* Use of a Riser with 750 & 1000 is required

|               | 300<br>GAL | 750<br>GAL | 1000<br>GAL |
|---------------|------------|------------|-------------|
| DIAMETER (IN) | 56         | 90         | 92          |
| HEIGHT (IN)   | 52         | 43         | 54          |
| CUBIC YARDS   | 56         | 62         | 67          |

# SECTION 59 INSTALLATION INSTRUCTIONS

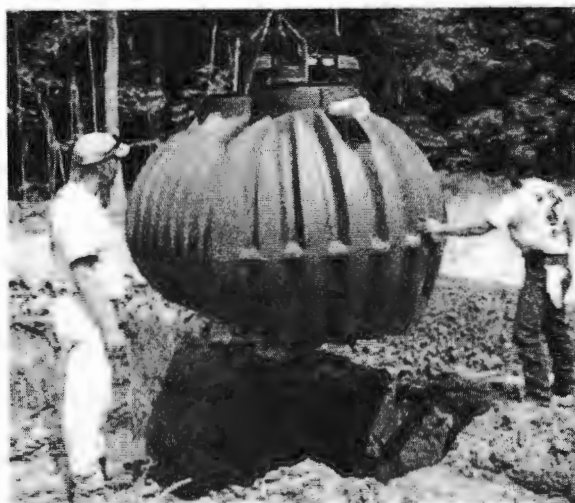
## 5.1 INSTRUCTIONS FOR STANDARD SEPTIC TANKS



**1** Dig and measure for appropriate tank. Allow for an extra 6-12 inches of space around the tank. Maximum depth of bury is 24" from top of tank to finish grade.



**2** Dump 6-12 inches of gravel mixture in the bottom of the hole and level.



**3** Set tank in hole and move the tank back and forth to settle tank in the gravel mixture. Use 3/8" - 3/4" gravel type aggregate.

**4** Level tank before removing straps in case further extraction is needed. Install riser (if used) at this time.



# SECTION 5.1 INSTRUCTIONS FOR STANDARD SEPTIC TANKS

## 5.1 INSTRUCTIONS FOR STANDARD SEPTIC TANKS CONTINUED



**5** Start addition of water and add approximately one foot more gravel mixture around the base of the tank. Continue to add the water at the same rate as the aggregate backfill material.

**6** Continue the backfill with gravel mixture up to the top of the tank.



**7** Level-out the gravel and prepare for the final top soil. Approximately 6" deep. Install cover at this time.

**8** Backfill the finish grade with loose topsoil.



## SECTION 3: INSTALLATION INSTRUCTIONS

### 5.2 INSTRUCTIONS FOR AIO AND PUMP TANKS

- 1 Inspect all materials for defects prior to installation.
- 2 Maximum depth of bury from the finish grade level to the top of the tank is 24"
- 3 Excavate hole a maximum of 12 inches larger than the tank that is being installed. Dig hole for accurate sizing. This reduces the distance between the tank and undisturbed soil. It also provides good support for the exterior tank wall.  
**NOTE: Never place tank directly on rock. If rocks are present, then place at least 12" of sand in excavated hole and level tank. Shifting tank from side to side will help settle and level tank.**
- 4 Place 6-12 inches of sand into bottom of excavated hole and level tank.  
**NOTE: Direction of flow - the inlet is higher than outlet.**
- 5 Wrap straps around tank or through lifting lugs (Do not put straps through man holes.) Carefully lower tank into the center of the excavated hole and seat into the sand base.  
**NOTE: If free flowing clay soil is being used for backfill, then you must fill the tank with water at the same rate as the backfill.**
- 6 For proper fit, install the riser before you backfill.
- 7 Continue back filling the excavated hole with sand or free-flowing soil.
- 8 Fill evenly around the tank with sand or free-flowing soil and compact as you fill. Check for level.
- 9 Compact backfill under inlet and outlet pipe.
- 10 Complete backfill to within 6" of finished grade. Complete installation with topsoil. Mound the soil over septic tank to provide positive drain age away from the tank. This will also help to allow for soil settling. Install lids on risers, immediately after installation.



# SECTION 6: SEPTIC EFFLUENT FILTERS

## 6:1 EFFLUENT FILTER INSTALLATION

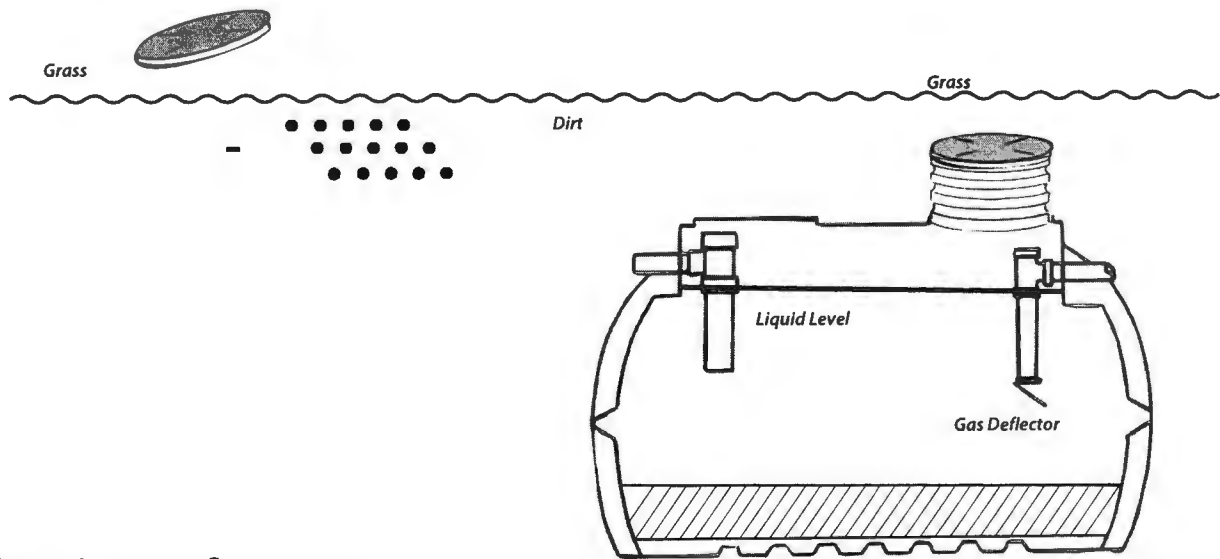
Step 1: Find the outlet access of your septic tank.

Access is at ground level:  
Simply remove cover.

-OR-

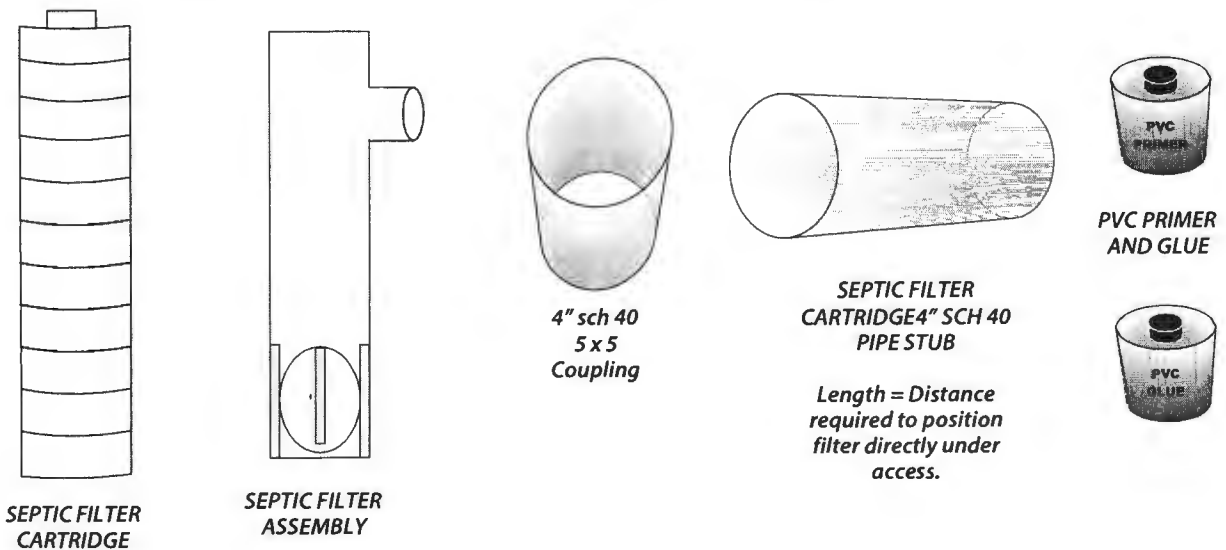
Access is below ground:

Use a probe or shovel to find access.



Step 2: Inventory Components.

Items needed; Septic Filter, 4" Sch40 SxS Coupling, 4" Sch40 pipe stub, PVC Primer, and PVC Glue.



### Step 3: Install Components

New Installation:

Existing Installation:

Outlet tee assembly is not glued.

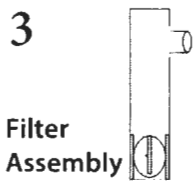
Outlet tee is glued.  
**Note: Pump tank to below water line to avoid solids going into drainfield.**

Remove tee assembly and discard.

Use a PVC saw to remove the tee and discard

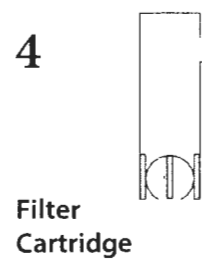
**1**

**Coupling**



**1**

**Pipe Stubs**

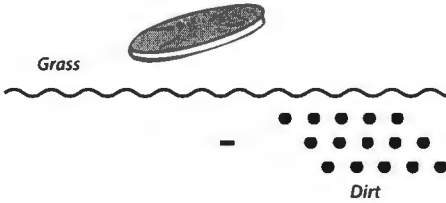


Glue; coupling, pipe stub, filter assembly and filter cartridge onto the outlet pipe.

## 6:2 EFFLUENT FILTER MAINTENANCE

Step 1: Find the outlet access of your septic tank.

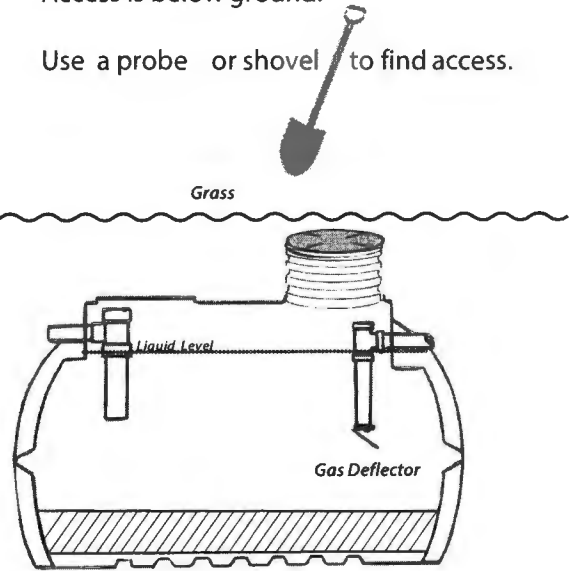
Access is at ground level:  
Simply remove cover.



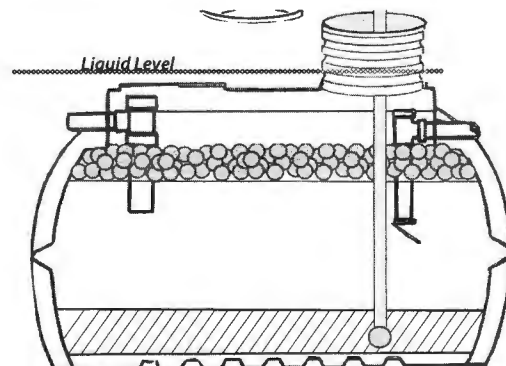
-or-

Access is below ground:

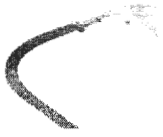
Use a probe or shovel to find access.



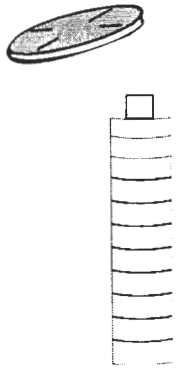
Step 2: Pump the tank down below  
waterline or as needed.



**Step 3: Remove filter cartridge and rinse over the access with a garden hose.**



**Step 4: Reinstall filter cartridge & lid.**



## **SECTION 7: RESOURCES**

### **7.1 AK INDUSTRIES**

AK INDUSTRIES  
2055 PIDCO DRIVE  
P.O. BOX 640  
PLYMOUTH, IN. 46563

PHONE: (574) 936-2542 • FAX: (574) 936-2298 • [www.akindustries.com](http://www.akindustries.com)

### **7.2 LOCAL HEALTH DEPARTMENT**

Your LHD can be found at ...  
<http://www.naccho.org/about/lhd/>

### **7.3 ENVIRONMENTAL PROTECTION AGENCY (EPA)**

ENVIRONMENTAL PROTECTION AGENCY  
U.S. EPA PUBLICATIONS CLEARINGHOUSE  
P.O. BOX 42419  
CINCINNATI, OH. 45241  
<http://www.epa.gov/>

A.K. Industries, Inc. (AK), the manufacturer of this product, in accordance with designs and specifications contained in this brochure, as modified by any additions or changes expressly reflected on the AK invoice for the product purchased, warrants to the original Purchaser that such product (as defined below) will be free from defects in materials and workmanship for limited lifetime warranty from the date of purchase as evidenced by purchaser's proof of purchase; provided, however, that, notwithstanding any other term or provision of this limited warranty, and in accordance with the terms and conditions of the Contract of Purchase entered into between AK and Purchaser, the terms and conditions of which are hereby incorporated by reference as though fully set forth here verbatim, A.K. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, AND EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTIES, RELATING TO THE PRODUCTS DESIGN, INCLUDING IT FITNESS FOR ANY PARTICULAR PURPOSE. Purchaser shall mean the person for whom the product is originally manufactured. AK will repair or replace, in its sole discretion, any defects in materials or workmanship in the product, but specifically excluding any defects in the design or performance of any AK product for its particular or any other purpose, occurring in the limited lifetime warranty period.

AK'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE VALUE OF THE PRODUCT, AND IT SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL DAMAGES, LABOR, MATERIAL, FREIGHT OR OTHER EXPENSES REQUIRED IN REPLACING, CORRECTING, OR RE-INSTALLING THE PRODUCT, SUCH REPAIR OR REPLACEMENT SHALL BE THE ONLY REMEDY AVAILABLE TO THE PURCHASER UNDER THIS LIMITED WARRANTY.

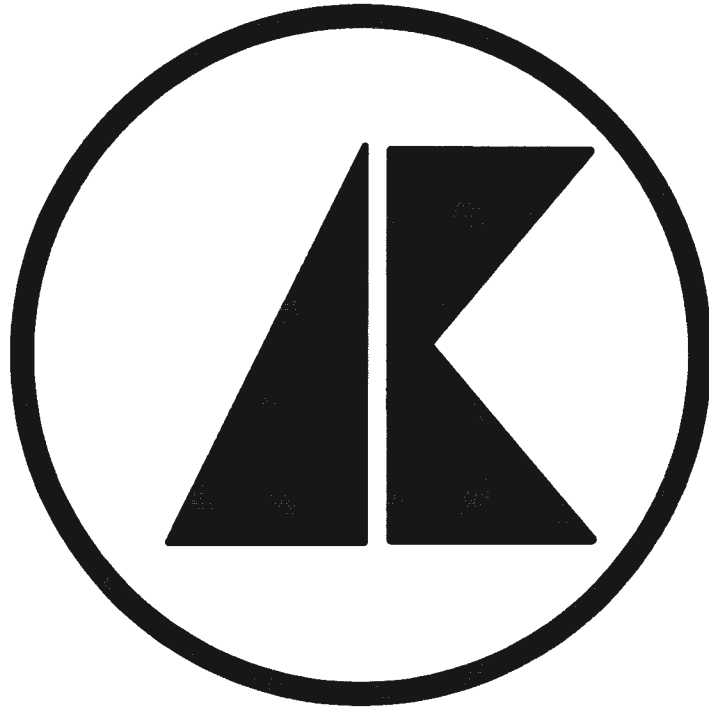
This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

THIS LIMITED WARRANTY IS MADE IN LIEU OF ANY OTHER EXPRESS WARRANTIES, FURTHERMORE, AK DISCLAIMS ANY IMPLIED WARRANTIES ARISING IN CONNECTION WITH THE SALE OF THIS PRODUCT, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

No employee, dealer, agent or other person is authorized to make any warranty or representation with respect to this product, other than is expressly contained herein.

IN NO EVENT SHALL AK BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

This limited lifetime warranty does not cover defects resulting from accidents, damage while in transit to our manufacturing location, alterations, unauthorized repair, failure to follow instructions, misuse or acts of God. Any claims arising under the foregoing must be reported to AK in writing and must be explicitly defined by the above parameters determining the validity of the warranty.



# **AK INDUSTRIES**

**2055 Pidco Drive / P.O. Box 640**

**Plymouth, Indiana 46563**

**Phone: 574-936-2542**

**Fax: 574-936-2298**

**[www.akindustries.com](http://www.akindustries.com)**

# HOME LAND

## ENVIRONMENTAL

p:443-995-5385 | [info@homelandhealthyhomes.com](mailto:info@homelandhealthyhomes.com) | [www.homelandhealthyhomes.com](http://www.homelandhealthyhomes.com)

| <b>Date:</b> February 19, 2024<br><b>Name of Evaluator:</b> Jason Jamison<br><b>Time:</b> 9:30 AM<br><b>Property Address:</b><br>6446 Elibank Drive<br>Elkridge, MD. 21075<br><b>Recent Weather Conditions:</b> Sunny | <b>Ordered By:</b> Beth Wynne<br><br><b>Buyers:</b> Gabby Miller<br><br><b>Homeowner Interview:</b> The homeowner interview was requested but was not received prior to inspection. | <b>Occupied:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><b>Length of Time Vacant:</b> Unknown<br><b># of People Living in Home:</b> N/A<br><b># of People moving in:</b> Unknown<br><b>Property Age:</b> 1990<br><b>System Age:</b> 1990<br><b>Last Date of Cleaning:</b> Unknown<br><b>Recomm'd Pumping Freq:</b> 1-2 Years  |
|---|---|---|
| Liquid level in tank is: <input type="checkbox"/> Above Normal <input type="checkbox"/> Normal <input checked="" type="checkbox"/> Below Normal   | Bottom Solids Depth: 24 Inches  |   |
| Depth of tank: 21 Inches  | Type of Tank Access: 6 Inch cleanout  | Depth of tank access: At grade  |
| Maintenance appears: <input type="checkbox"/> Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor   | # Bedrooms: 4   | Depth to Distribution Box: -54 Inches   |
| Effluent Filter: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | Previous high liquid level: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | Distance to well: Public water  |
| Records Search: Records were received from Howard County prior to the evaluation.   |   |   |
| Were there any impermeable surfaces above the septic system (i.e. driveway)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Deck over septic tank  |   |   |
| Type of Tank  | Tank Composition and Size   | Type of Absorption System   |
| <input checked="" type="checkbox"/> Septic Tank (Tank)  | <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Plastic  | <input checked="" type="checkbox"/> Leaching Field <input type="checkbox"/> Raised Mound  |
| <input type="checkbox"/> Aeration System  |   | <input type="checkbox"/> Drywell (Number of: ) <input type="checkbox"/> Cesspool  |
| <input type="checkbox"/> Other:   | Tank Size: 1,500 gallons  | <input type="checkbox"/> Unknown: _____   |
| System Component  | Condition   | Comments  |
| <b>Septic Tank</b>  | <input type="checkbox"/> Acceptable<br><input checked="" type="checkbox"/> Unacceptable<br><input type="checkbox"/> Needs Further Evaluation  | <p>A camera was used during this inspection (See camera inspection). The septic tank is composed of concrete and is 1,500 gallons in capacity. Access consists of a 6 inch cleanout at grade; the septic tank is 21 inches below grade. The septic tank and 6 inch cleanout are located under the deck in the back yard (See Page 2; Picture 1). The cleanout is accessible via a panel in the deck (See Page 2; Picture 2). Upon arrival the liquid level of the tank was observed to be -9 inches below the normal operating level (See Page 3; Picture 3). There are 24 inches of solids present in the tank indicating fair maintenance. The below normal liquid level coupled with the amount of solids present in the tank indicate that the septic tank is no longer watertight. The septic tank needs to be replaced by a licensed septic contractor after permits have been issued by the local health department. The frontline of the tank has a major belly with moderate solids collection occurring (See camera inspection). The frontline needs to be remediated during the replacement of the tank. Portions of the deck will need to be removed to facilitate these remediations. There is evidence of previous backups in the tank (See Page 3; Picture 4).</p> |
| <b>Absorption System</b>  | <input checked="" type="checkbox"/> Acceptable (with Concerns)<br><input type="checkbox"/> Unacceptable<br><input type="checkbox"/> Needs Further Evaluation                        | <p>The absorption system is labeled as "acceptable with concerns" due to the evidence of previous backups in the septic tank. The distribution box could not be excavated due to its depth. County records indicate three drainfields. Three drainfields were located during the inspection. The areas above all three drainfields were probed and found to be dry to a depth of at least 46 inches below grade with no signs of moisture or biomat present. Approximately 300 gallons of water were introduced into the system with no signs of a backup. Due to the perceived age of the absorption system, the buyer should budget for future repairs.</p>   |

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Picture 1:

Picture shows the location of the septic tank under the deck.



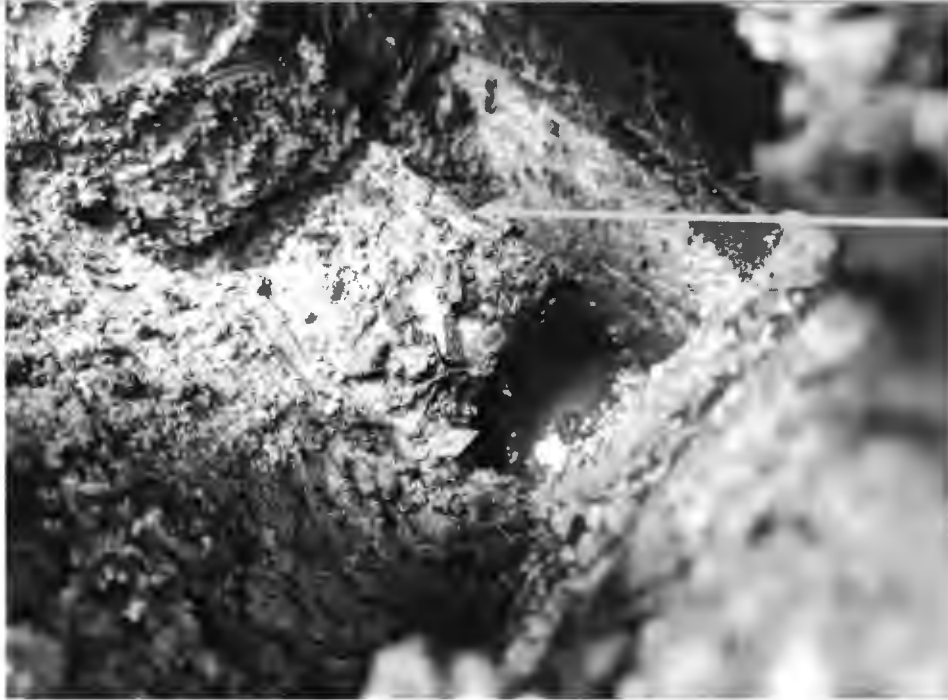
Picture 2:

Picture shows the panel to access the cleanout of the septic tank.

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Picture 3:

Picture shows the below normal liquid level of the tank.

Liquid level should be here.



Picture 4:

Picture shows the evidence of previous backups in the tank.

Biomat on the lid seat.

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Picture 5:

Picture shows the location of the distribution box in relation to the septic tank.

Distribution Box



Picture 6:

Picture shows the general location of the drainfields.

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### Sketch of System

*See Septic Sketch for layout & approximate distances of the septic system*

#### DISCLAIMERS

- This is a subjective and visual inspection only, the conclusions of which are based on the observed condition of the system components that could reasonably be accessed, and information known about the system at the time this report was completed. There may be unknown historical problems or unseen conditions which may compromise the conclusions stated in this report.
- Suggestions or recommendations for repairs or remediation may result in the need for further repair or remediation once the system components are fully excavated.
- A 'Satisfactory' evaluation does not mean the system will meet the local approving authority's criteria for determining compliance with state code: COMAR 26.04.02.02 D(4).
- The evaluation of the Sewage Disposal System as reported is based on the conditions observed on the day of the inspection.
- This report is neither a WARRANTY nor does it GUARANTEE continued acceptable functionality or performance of the Sewage Disposal Systems operations.
- If the house has been unoccupied the findings in this report may not be accurate, as limited or no use of the system may conceal or mask problems that may be revealed under typical sewage loading.
- If the general ground condition is excessively wet at the time of inspection, the findings in this report may not be accurate, as ground moisture may cover or hide septic effluent that may be on or near the ground surface.
- If the house is vacant or the conditions excessively wet during inspection, it is recommended that the system be reevaluated at a later date and/or alternate techniques be used to address those potential issues.
- Payment and/or use of this evaluation signify understanding and acceptances of the above clauses, as well as any noted faults with the system.

|                                    |  |                        |
|------------------------------------|--|------------------------|
| <b>Representative's Signature:</b> |  | <b>Date:</b> 2/21/2024 |
|------------------------------------|--|------------------------|



# Maryland On-Site Sewage Disposal System Inspection Report



\*\* For this inspection to be considered a proper inspection, all sections must be completed\*\*

## Pre-Inspection Information

|                                   |                  |                            |
|-----------------------------------|------------------|----------------------------|
| <b>Property Information</b>       |                  |                            |
| Address: 6446 Elibank Drive       |                  |                            |
| City: Elkridge                    | State: MD        | Zip Code: 21075            |
| Permitted # of Bedrooms: 4        | Build Year: 1990 | Water Supply: Public Water |
| Property Type: Single Family Home | If Other:        |                            |
| Comments:                         |                  |                            |
|                                   |                  |                            |

|   |                             |       |
|---|-----------------------------|-------|
| <b>Owner Information/ Interview</b>                   |                             |       |
| Last Name: Bowers                                     | First Name: Adele           |       |
| Number of Occupants: 0                                | Number of Years Occupied: 4 |       |
| If Vacant, Date Vacated (mm/dd/yyyy): Unknown         |                             |       |
| In-Home Business: No                                  | Type:                       |       |
| Has the Property Recently had a Septic Inspection: No |                             | Date: |
| Any Septic System Issues:                             | Type:                       |       |
| Comments:   |                             |       |
|   |                             |       |

|  |                                      |                |
|--|--------------------------------------|----------------|
| <b>Document Search Information</b>         |                                      |                |
| Document Request Date: 2/16/2024           | Septic Permit Reviewed: Yes          |                |
| <b>Permitted Septic System Components:</b> |                                      |                |
| Septic Tank: Yes                           | Install Year: 1990                   | Size: 1500 gal |
| BAT Unit: No                               | Install Year:                        | Manufacturer:  |
| Distribution Box: Yes                      | Pumping Chamber: No                  |                |
| Absorption Type: Trenches                  | Total Trench Length/ Width: 3/284 Ft |                |
| Bed Size (L/W): Ft                         | Absorption Component Depth: 6 Ft     |                |
| Comments:                                  |                                      |                |
|  |                                      |                |

### On-site Inspection

Start Date: 2/19/2024

Completion Date: 2/19/2024

#### **Crawl Space/ Basement Evaluation**

Number of Drain Pipes Exiting Foundation Wall: 1

Describe Each Pipe and Source: Basement

Does Plumbing Evaluation Confirm all Wastewater is Directed into the Septic System: Yes

#### **Water Treatment**

Does the House have any Water Treatment Devices: No      If Yes, Number:

Describe each Water Treatment Device:

If any, where is the Water Treatment Discharge Directed:

#### **Sewer Line Outside of Foundation**

Pipe Material: PVC      Cracks/ Breaks: No      Blockage: No

Comments: See Home Land Environmental inspection reports for further details.

#### **Grease Trap**

Grease Trap: No      Size: (Gal)      Construction:

Liquid Level:      Proper Baffle:

Comments:

#### **Septic Tank**

Septic Tank: Yes      Number of Tanks: 1      Total Size of Tank(s): 1500 (Gal)

Type of Tank(s): Single Compartment      Construction: Concrete

Liquid Level: Below Normal      Evidence of High Water Staining: Yes      Effluent Filter: No

Inlet Baffle: Yes      Outlet Baffle: Yes      Baffle Condition: Good

Access: Riser At Grade      Evidence of Ground or Surface Water Intrusion: No

Comments: See Home Land Environmental inspection reports for further details.

**Best Available Technology Unit (BAT)**

BAT Unit:  No  Manufacturer:  Model:

Power to Contro Pannel:  Control Pannel:  Control Pannel Alarm:

Last Service Date:  Was Last Service Date more than 365 days:

Comments:

**Distribution Box**

Distribution Box:  Yes  Number of Drainlines leaving Box:  ? Distribution Box Level:

Is there Equal Disstribution to Drainlines:  Liquid Level:

Comments: See Home Land Environmental inspection reports for further details.

**Pumping Chamber**

Pumping Chamber:  No  Access:  Liquid Level:

High Water Alarm:  Alarm Properly Functioning:  Separate Float Tree:

Pump Elevated off the Bottom of the Tank:  Electrical Connections:

Comments:

**Soil Absorption System**

Absorption Type:  Trenches  Observation Pipes (OP):  No  OP Water Depth:

Trenches Probed:  Yes  Describe Observation: Areas above dry to 46" BG

Evidence of Surfacing Effluent:  No  Describe:

Comments: See Home Land Environmental inspection reports for further details.

**Other On-Site Disposal Systems (OSDS) Components and Systems**

Detail all other OSDS components not covered in the above sections.

Comments: See Home Land Environmental inspection reports for further details.

### OSDS Testing

#### **Hydraulic Load Test**

Hydraulic Load Test Performed:     Testing Volume:  Gal    Elapsed Time:  Min

Comments:

#### **Dye Test**

Suspicious Liquid Discharge on or near the Property:

Dye Test Performed:     Reason:

Comments:

#### **Tank Pump Out**

Tank(s) Pumped:     Number of Tanks Pumped:     Total Gallons Pumped:

Any Flow into Tank from Outlet Pipe:     Any Groundwater Entering the Tank:

Does the Tank Appear to be Watertight:

Comments:

### Summary/Conclusions

|  |   |
|--|---|
| Wastewater Collection System   | <input checked="" type="checkbox"/> Satisfactory                    |
| Conveys all Wastewater to Sewer Line:  | <input type="checkbox"/> Unsatisfactory                             |
|  | <input type="checkbox"/> Satisfactory with Concerns                 |
| Sewer Line   | <input type="checkbox"/> Satisfactory                               |
|  | <input checked="" type="checkbox"/> Unsatisfactory                  |
|  | <input type="checkbox"/> Satisfactory with Concerns                 |
| Grease Trap  | <input type="checkbox"/> Satisfactory                               |
|  | <input type="checkbox"/> Unsatisfactory                             |
|  | <input type="checkbox"/> Satisfactory with Concerns                 |
| Septic Tank  | <input type="checkbox"/> Satisfactory                               |
|  | <input checked="" type="checkbox"/> Unsatisfactory                  |
|  | <input type="checkbox"/> Satisfactory with Concerns                 |
| BAT Unit   | <input type="checkbox"/> Satisfactory                               |
|  | <input type="checkbox"/> Unsatisfactory                             |
|  | <input type="checkbox"/> Satisfactory with Concerns                 |
| Distribution Box   | <input type="checkbox"/> Satisfactory                               |
|  | <input type="checkbox"/> Unsatisfactory                             |
|  | <input checked="" type="checkbox"/> Satisfactory with Concerns      |
| Pumping Chamber  | <input type="checkbox"/> Satisfactory                               |
|  | <input type="checkbox"/> Unsatisfactory                             |
|  | <input type="checkbox"/> Satisfactory with Concerns                 |
| Soil Absorption System   | <input type="checkbox"/> Satisfactory                               |
|  | <input type="checkbox"/> Unsatisfactory                             |
|  | <input checked="" type="checkbox"/> Satisfactory with Concerns      |
| All other OSDS components  | <input checked="" type="checkbox"/> Satisfactory                    |
|  | <input type="checkbox"/> Unsatisfactory                             |
|  | <input type="checkbox"/> Satisfactory with Concerns                 |
| Does any component of the OSDS need to be repaired or replaced?  |   |
| <b>Explain</b>   | See Home Land Environmental inspection reports for further details. |
| In my professional opinion this OSDS is properly functioning base on permitted capacity: <span style="float: right;">Yes</span>    |   |
| My Inspection verifies the OSDS is consistant with the septic permit: <span style="float: right;">Yes</span>                       |   |
| If listed for sale, does the number of bedrooms advertised match what is legally permitted: <span style="float: right;">Yes</span> |   |
| Comments:  |   |
|  |   |
| **Check with the Approving Authority for permitting requirements before any repair is performed to the septic system **            |   |

**\*\*ATTACH ALL DOCUMENTS PROVIDED BY THE APPROVING AUTHORITY**

**THIS INSPECTION REPORT DETAILS COMPONENTS AND THE PRESENT CONDITION OF THE ON-SITE SEWAGE DISPOSAL SYSTEM FOR THE ADDRESS LISTED IN THE PROPERTY INFORMATION SECTION OF THIS REPORT. THE CONCLUSIONS OF THIS REPORT DO NOT GUARANTEE OR WARRANTY THIS OSDS WILL FUNCTION IN THE FUTURE.**

This inspection of the septic system is an evaluation of function and is not an evaluation that the system meets current State regulations. The owner should not assume future expansion of the home is possible without additional evaluation completed by the Approving Authority.

I attest that I have properly completed an inspection of the OSDS at this property. This inspection includes information obtained from the property owner, or representative, and a document search from the Approving Authority. I have completed all sections pertaining to components of this OSDS. The conclusions of this report are my professional opinions based on my training and experience inspecting OSDS.

First Name: Jason

Last Name: Jamison

License Number:

Signature: *Jason Jamison*

Date: 2/21/2024