DISCLAIMER:

The use of trade names or images in this training presentation does not constitute an endorsement or recommendation by the Arkansas Department of Health.

All references to trade names or use of product images are for educational purposes only.
Act 402 of 1977

- Individual Sewage Disposal Permits
- Subdivision Review
- Licenses for:
  - Installers
  - Designated Representatives
  - Septic Tank Manufacturers
  - Certified Monitoring Personnel
- Ten Acre Exemption:
  - 200 Foot Setback from Boundaries
  - Does not apply to ADEQ requirements
- Fees
- Violations are a misdemeanor that may result in maximum fines of $1,000.
Rules and Regulations Pertaining to Onsite Wastewater System

• Found on ADH Website
  www.healthy.arkansas.gov

• Copy in Installer Packet

• Last Revision August 2022
Arkansas Department of Environmental Quality (ADEQ)

- Individual Treatment Facilities ARG550000
- Modification Effective Date: July 1, 2019 increase size of treatment unit to 1500 gpd
- Effective Date: July 1, 2019
- Expiration Date: June 30, 2024

Onsite Wastewater System utilizing Surface Discharge (i.e. ATU, PMF, Sand filter)

* ADEQ ARG550000 Permit Required (regardless of acreage)
INSTALLER LICENSING REQUIREMENTS

Pass Licensing Test
Annual Training Course
$100 Annual License Fee
License Expires December 31
License Renewable January 1
50% Late Fee After March 1
Delinquent for more than one year, requires retesting
THE APPROVED PERMIT

- Individual Onsite Wastewater System Application (EHP-19)
- Completed by Designated Representative (DR)
- Soil & Site Information
- Signed on Line 21 by Environmental Specialist
- Good for 1 year without Revalidation
- No Changes or Substitutions without DR’s Authorization
- Installation Inspection and Permit for Operation
Arkansas Department of Health
Environmental Health Protection

Individual Onsite Wastewater System Permit Application

Part 1 Treatment Type (check one) Disposal Method (check one)

DR Environmental I.D. #

1. Owner/Applicant’s Name
2. Phone Number
3. Mailing Address
4. County
5. Address of Proposed System (if a 911 address is not available, attach detailed directions or map)
6. Subdivision Name
7. Approval Date
8. Date Recorded
9. Lot Number
10. Lot Dimensions
11. Total Area (Acres)
12. # Bedrooms # People
13. Daily Flow (GPD)
14. Brief Legal Description of Property (Attach a separate sheet of paper if necessary)
15. Water Supply (Specify supplier if Public Water)
16. GPS Coordinates

17. Loading Rates GPD/ft² 18. System Size
Primary Site
Secondary Site
Percolation Test (min/lin)
Primary Site Ave
Secondary Site
a. Size of Septic Tank
d. Number of Field Lines
b. Size of Dose Tank
e. Length of Field Lines
c. Absorption Area
f. Trench Media

TO THE OWNER
The permit for construction may be deemed invalid by the local Environmental Health Specialist before the start of construction, if the site and/or soil conditions have changed after approval of this permit, or if the information within this permit is inaccurate or has been found to be misrepresented. Approval for operation does not constitute a guarantee that the system will function properly. The approval states that the system was designed and installed according to the Arkansas Department of Health, Rules and Regulations Pertaining to Onsite Wastewater Systems, unless there are exceptions or deviations noted in the comments. A Permit for Construction is valid for one (1) year from the date of approval. The authorized agent must revalidate a permit more than one (1) year old prior to the start of any construction.

19. Utilization Verification
I hereby attest that Item 12, the number of bedrooms (number of persons for commercial) and square footage of the structure that will utilize the designed individual onsite wastewater system in this permit application, is accurate. I have reviewed and understand the type of system submitted in this application relating but not limited to: layout, installation, maintenance, and operation.

Owner/Applicant Signature Date

20. I certify that I have conducted the above tests and that the above listed information is in accordance with the latest requirements of the Arkansas Department of Health Rules and Regulations Pertaining to Onsite Wastewater Systems.

Designated Representative Signature

21. Approval of Health Authority
The information and specifications in the application has been reviewed and found to meet the requirements of the Arkansas Department of Health Rules and Regulations Pertaining To Onsite Wastewater Systems. A PERMIT FOR CONSTRUCTION is hereby issued.

Environmental Specialist Signature Date
## Arkansas Department of Health
Environmental Health Protection

### Part 1

#### 22. Soil Determination (Primary Area)
Indicate the depth to items a-f. if observed in the soil (designate in inches).

|------------|---------|----------|---------|---------------|--------------|--------------|------------------------|

#### 23. Soil Determination (Secondary Area)
Indicate the depth to items a-f. if observed in the soil (designate in inches).

|------------|---------|----------|---------|---------------|--------------|--------------|------------------------|

### Part 2

#### 24. Soil Profile Information

**Primary Site (SWT)**

<table>
<thead>
<tr>
<th>Brief</th>
<th>Matrix</th>
<th>Redoxmorphic Features</th>
<th>Soil Texture</th>
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</table>

| Mod   |        |                       |              |
| Long  |        |                       |              |

**Secondary Site (SWT)**

| Brief |        |                       |              |
| inches|        |                       |              |

| Mod   |        |                       |              |
| Long  |        |                       |              |

#### 25. Soil Series
(Do not use Soil Series to determine Seasonal Water Tables)

#### 26. Percolation Test (min/in)

<table>
<thead>
<tr>
<th>Primary Site</th>
<th>Primary Site</th>
<th>Primary Site</th>
<th>Primary Site</th>
<th>Secondary Site</th>
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</table>

<table>
<thead>
<tr>
<th>Rate for Hole 1</th>
<th>Rate for Hole 2</th>
<th>Rate for Hole 3</th>
<th>Average Percolation Rate (1-3)</th>
<th>Percolation Rate</th>
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</thead>
</table>

Comments

### Part 3

#### Installation Inspection:

- Septic tank manufacturer
- Septic tank material
- Dose tank manufacturer
- Dose tank material
- Pump Information

- Name of Installer
- License Number

Installation Inspected by
(check one or see below)

- Environmental Health Specialist
- Designated Representative

Signature __________________________ ID Number __________ Date __________

System Installation Verification
I have installed this system as designed and in compliance with all Rules and Regulations Pertaining to Onsite Wastewater Systems.

Installer Signature __________________________ ID Number __________ Date __________

### Part 4

Permit for Operation

The information contained in Part 1 and 2 of this form has been reviewed and found to meet the requirements of the Arkansas Department of Health. THE PERMIT FOR OPERATION of this system is hereby issued.

Environmental Health Specialist __________________________ ID Number __________ Date __________

Comments

Site Revalidation conducted by
(check one)

- Environmental Health Specialist
- Designated Representative

Signature __________________________ ID Number __________ Date __________
THE PLAT DRAWING

Plan(s) Attached to the Permit Form

Drawing Shows:

• House, Property Lines, & Setbacks
• Septic Tank Location
• Pump Tank Locations (if any)
• Solid Pipes, Cleanouts, & Distribution Box
• Absorption Trenches on Contour
• Other Important Details
Lot #1

Markham Street

Ground Shots

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<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Benchmark</td>
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<tr>
<td>Stub out.</td>
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<tr>
<td>In Tank</td>
<td>2.00</td>
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</tr>
<tr>
<td>Out Tank</td>
<td>2.46</td>
<td></td>
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<tr>
<td>D-Box</td>
<td>2.66</td>
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</table>

1. Trenches to be 1.5' (18") deep
2. Top of pipe at stub out to be even with natural ground
3. Top of tank at inlet to be even with natural ground
4. Top of D-box even with natural ground
OTHER DOCUMENTS

• Pump Curves & Specification Sheets
• Memorandum of Agreement
• Monitoring Contracts
• Installation Instructions
• Vicinity Map
NEW PRODUCTS

Reviewed & Authorized by
Onsite Wastewater Product
Review Committee

Listed On:
Authorized Onsite Wastewater Products List
Agency Website
www.healthy.arkansas.gov/programs-
services/topics/onsite-wastewater

Grouped by Categories
IMPORTANT POINTS

! 24 Hour Notice to EHS Required Before Installation Begins
   Sec. 4.7

! Licensed Installer Must Be On Site During Entire Installation
   Sec. 14.1
SYSTEM INSPECTIONS

EHS May Authorize Designated Representative To Make Final Inspection

Final Inspections May Be Conducted by:

- Environmental Health Specialist
- Designated Representative

If no final inspection, installer completes Part 2 of the EHP-19 and signs the System Installation Verification Section.

In addition, installer must sign and submit the Installation Specification Sheet (EHP-6) to the local health unit within 5 working days!
Arkansas Department of Health
Environmental Health Protection

Individual Onsite Wastewater System Installation Specifications
(Must be signed and returned to ADH Authorized Agent within five working days.)

<table>
<thead>
<tr>
<th>Name of Applicant</th>
<th>License #</th>
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| Location of System | |

| Name of Installer | |

| TB = Trench Bottom Elevation |
| PE = Top of Pipe Elevation |
| GE = Ground Elevation |
| FL = Flow Line Elevation (Top of Pipe Elev. + 4") |
| TE = Tank Lid Elevation |

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<thead>
<tr>
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<th>Dose Tank Size (Gal)</th>
<th>Drawdown Inches</th>
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<th>GE</th>
<th>TE</th>
<th>Dose Tank Inlet</th>
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**Environmental Health Specialist __________________________ Date __________

I have installed this system as designed and in compliance with all Rules and Regulations Pertaining to Onsite Wastewater Systems.

Installer Signature __________________________ License Number __________ Date __________

Sign and submit in 5 days
MINIMUM SET BACKS

HORIZONTAL DISTANCES FROM ALL SEWAGE SYSTEM COMPONENTS

- 300 Feet From High Water Mark of Lakes If Within One Quarter (¼) Mile of Water a Supply Intake Structure
- 300 Feet From Any Spring Used as a Source of Domestic Water
- 100 Feet From a Domestic Water Well
- 100 Feet From High Water Mark of Streams & Lakes
- 100 Feet from Ponds on Other Property or 50 feet from Ponds on the Same Property
- 10 Feet From Dwellings
- 10 Feet From Property Lines
- 10 Feet From Water Service Lines
Recommendations Before Final Bid on an Installation

• Review permit completely for all construction details
• Site Visit and Review
• Locate Stub Out (if applicable)
• Take elevations (if concerned)
• Locate required supplies and suppliers
• When in doubt, ask for assistance!
• Signed Contracts with homeowner (optional)
SEPTIC TANK

Primary Wastewater Treatment

- Separates Solids From Liquids
  - **Scum Layer**: Floats to surface and may contain Fats, Oils & Grease
  - **Sludge Layer**: Solids sink to the bottom and may contain Heavier Organic & Inorganic Materials
- Start of Biological Process Using Anaerobic Bacteria
- Stores Solids For Future Removal
Profile of a typical septic tank

Inlet from house → Scum Layer → Liquid Effluent → Outlet to septic field

Gas

SLUDGE
SEPTIC TANKS

Size Specified on Application Form (EHP-19 line 20a)

Concrete, Fiberglass, or Plastic

Minimum Size 1000 Gallons

Designated Representative Specifies:

- Tank Manufacturer
- Size (Gallons)
- Material
- Location on Lot
- Outlet Flow-line

NO CHANGES WITHOUT DR’s OK!
Concrete Septic Tank
SEPTIC TANK SIZE

Residential

1, 2, & 3 Bedrooms 1000 Gallons
4 Bedrooms 1250 Gallons
250 Gallons for Each Additional Bedroom

Commercial Establishments
Capacity Equal to 48 Hour Flow min.
SEPTIC TANK DETAILS

Minimum of 10 Feet From House

Inlet Baffle Extends 6 Inches Below Liquid Level

Outlet Baffle Must Extend 35% - 45% of Liquid Depth

Risers Required Over Both Inlets & Outlets

DR May Specify Effluent Filter
ALL SEPTIC TANKS MUST BE WATER TIGHT

Potential Problems During a Significant Rain Event and/or Wet Season

Ground Water Infiltration:

- Hydraulic Overload of the Absorption Field
- Excessive Pump Run Time
- Groundwater Contamination
SITE PREPARATION

Find Primary Absorption Field Area

Look For DR’s Flags

Locate Benchmark

Check Soil Moisture

Avoid Soil Compaction

Avoid Smearing Trench Walls

Keep Heavy Equipment Off of Both Primary & Secondary Absorption Field Sites

Use Low Impact Tracked Equipment When Possible

Minimize Vehicle Traffic
Follow manufacturers directions for proper fit of pipe into seal.
SEPTIC & PUMP TANK INSTALLATION

DR Selects:
All Tank Locations
Tank Depths

• Tank Holes Must Be Large Enough for Backfilling
• Tanks May Need to be Bedded on Sand or Gravel
• Fill Tanks With Water To Prevent Floating
• All Tanks Must Be Watertight
ABSORPTION TRENCHES

Minimum Number of Trenches is 2
Maximum Length 100 Feet
Min. 8 ft. center to center
Bottom of Trench Level & On Contour
(Level is preferred but tolerant slope on perforated pipe 0-2 Inches/100 Feet)

DR Design May Include:
Diversion Device
Serial Distribution
Over Fill To Allow For Settling
ABSORPTION TRENCH MEDIA

Gravel Trench
Washed Gravel
(no fines)
¼ - 1½ Inch Diameter
2 Feet Wide & 1 Foot Deep

4-Inch ASTM-2729 or F-810 Perforated Pipe 6 Inches Above Bottom

Authorized Gravel Substitute
Listed On Authorized Products List & Website
Installed As Specified By Manufacturer

Designated RepresentativeSpecifies Media
ABSORPTION TRENCHES

• Installed On Contour

• Minimum spacing between the trenches shall be 6 feet between the trenches and 8 feet center to center

• 18 Inches Deep Unless Otherwise Specified by the Designated Representative

• Horizontal separation of 5 feet between the absorption area and tight line trench

• Barrier Material Over Media
  • Geo-Textile
  • Building Paper (Not Roofing Felt)

• Authorized Media (Follow Manufactures Instructions)
ABSORPTION TRENCH CROSS-SECTION

- Backfill
- 24 Inches
- 12 Inches
- 6 Inches
- 4-Inch Perforated Pipe
- ¼ - 1½ Inch Washed Gravel
- Barrier Material
- Overfill

- 12 Inches
- 24 Inches
- 6 Inches
- ¼ - 1½ Inch Washed Gravel
Absorption Trench
Installed on Contour
With Barrier
Material In Place
( Geo-Textile )

Note: Contour line.
MAXIMUM STORAGE INSTALLATION AND CONSTRUCTION

Construction technique where the placement of the distribution box or septic tank flowline allows for maximum storage within a trench as well as the surrounding soil.

The two types of maximum storage installations are:

Flat or Sloping
HOUSE SEWER LINE

Septic Tank Inlet & Outlet Pipes Must Be Schedule 40 PVC

Slope On “Inlet” Pipe $\frac{1}{8} - \frac{1}{4}$ Inch Per Foot

4 Inch Cleanout Required Before Entering Tank

Every 100 Feet Changes In Direction $> 45^\circ$
Typical single-compartment septic tank with ground-level inspection risers and screen

- Riser
- Manhole
- Riser
- From house
- To additional treatment and/or dispersal
- Screen
- Inlet tee
- Outlet tee
- Scum
- Wastewater
- Sludge
• **Trench Width**

6”-24” inches
Soil Smearing
Smearing of sidewalls and bottoms reduces the absorption rate

Two critical factors: How wet is the soil? What is the soil's clay content?

Roll the soil between your thumb and index finger. If the soil forms a ribbon it is too wet to install the lateral field.
Soil Compaction

When soil particles are compressed, the void spaces in the soil are eliminated. This also damages the soil structure. The result is less storage in the soil and reduced hydraulic conductivity.

Use low impact track equipment whenever possible. All traffic on the absorption site should be avoided during wet conditions.
SITE CLEARING & GRUBBING

Have A Specific Plan For Each Site

Leave Top Soil

Cut Trees Flush To Ground

Only Remove Roots That Interfere With Trenches

Remaining Roots Will Rot

Use Stump Grinder On Stumps

Rake Smeared sidewalls to Depth of 1 Inch
EFFLUENT DISTRIBUTION

- Gravity Distribution
- Pumped Distribution
GRAVITY DISTRIBUTION

- Distribution Box
  *(Key: equal distribution)*

- Serial Distribution
DISTRIBUTION BOXES
EFFLUENT FLOW CONTROL DEVICES

AKA: Diversion Devices
DISTRIBUTION BOX

Materials
Concrete
Plastic

Bedded on Undisturbed Earth, Gravel, or Concrete
Must Be Level
All Lines Feed the Same
Use Flow Control Devices

4 Inch PVC Solid Pipe In & Out
Schedule 40 PVC
SDR-35 PVC

NO PERFORATED PIPE FOR 5 FEET
PUMPED DISPERSAL

- Distribution Box
- Low Pressure Distribution (LPD)  
  *(Key: equal distribution in small doses)*
- DR Designs Distribution System
Pressure Manifolds
Orifice Disk must be sized according to the specification found in the permit. Accurate drill size is important when the manifold is used with uneven length lines.
Effluent Filters
PUMP TANKS

Large Enough For:

- Dose Volume Specified by DR
- Ballast (to prevent floating) 1/4
- Reserve (surge capacity) 1/3 daily usage

Electrical Connections Protected From Corrosive Gasses
Filtered Pump Vaults
FILTERED PUMP VAULTS

• 250 Gallon Larger Septic Tank Required

• Maximum drawdown per Dose Cycle is 3 Inches

• Pump Vault Inlets Between 35%-45% of the Liquid Depth of Tank

• Pumped Effluent Line Goes Out Through Septic Tank Outlet Riser
DOSED DISTRIBUTION BOX

Inlet Pipe 1½ or larger Schedule 40 PVC

Outlet Pipes 4 Inch

Schedule 40 PVC

OR

SDR-35 PVC

Baffled For Even Flow To All Lines

DR Specifies Construction & All Components
Dosed Distribution Box

90° Bend Acts As Baffle
PUMPING DOWN HILL

When the soil absorption field is located below the elevation of the pump tank, measures must be taken to prevent the effluent from being siphoned into the absorption field.

HOW CAN THIS BE PREVENTED?

1/8 inch hole at head works