

septic tank diagram drain field

****Understanding the Septic Tank Diagram Drain Field: A Complete Guide****

septic tank diagram drain field is a crucial concept when it comes to managing wastewater in homes that aren't connected to municipal sewer systems. If you've ever wondered how your septic system works beneath the ground, a clear understanding of the septic tank and its associated drain field is essential. This article will walk you through the components, functions, and maintenance tips related to septic systems, helping you visualize how wastewater treatment happens right on your property.

What Is a Septic Tank Diagram Drain Field?

At its core, a septic system is an underground wastewater treatment structure, commonly used in rural areas where centralized sewer services are unavailable. The septic tank is the first stage of the system: it collects household wastewater, allowing solids to settle and partially decompose. Beyond the tank lies the drain field, sometimes called a leach field or absorption field, which is where the real magic happens in terms of wastewater filtration and absorption into the soil.

A septic tank diagram drain field typically illustrates how these parts connect and function together. The diagram shows the flow from the home's plumbing to the septic tank, then from the tank to the series of perforated pipes laid in trenches filled with gravel. This setup allows the liquid effluent to gradually seep into the surrounding soil, where natural biological processes further break down contaminants.

The Basic Components You'll See in a Septic Tank Diagram

- ****Inlet pipe:**** Carries wastewater from the home into the septic tank.
- ****Septic tank:**** A watertight container that holds wastewater long enough to separate solids from liquids.
- ****Baffle or outlet tee:**** Prevents solids from leaving the tank and directs the effluent to the drain field.
- ****Drain field (leach field):**** A network of perforated pipes buried in trenches filled with gravel or sand, dispersing the treated liquid.
- ****Soil:**** Acts as a natural filter, removing harmful bacteria, viruses, and nutrients.

Understanding these parts through a septic tank diagram drain field helps homeowners recognize how their wastewater is treated and why proper maintenance is vital.

How Does the Drain Field Work in a Septic System?

The drain field is often the unsung hero of a septic system. After solids settle in the septic tank, the remaining liquid, known as effluent, flows into the drain field. Here, the effluent is distributed through a series of perforated pipes that spread it evenly across the trenches.

The soil beneath these trenches is specially chosen for its permeability, allowing the liquid to percolate down slowly. As the effluent moves through the soil layers, naturally occurring microbes break down harmful organisms and nutrients, effectively purifying the water before it reaches the groundwater.

Why Is Soil Permeability Important?

Soil permeability determines how quickly water can move through the ground. If the soil is too clayey or compacted, it won't drain properly, leading to pooling or system backups. Conversely, very sandy or loose soils may allow effluent to pass through too quickly, reducing the treatment time and potentially polluting groundwater.

This is why a site evaluation, including soil testing, is a critical step before installing a septic system. The septic tank diagram drain field often includes these considerations to show ideal trench placement and dimensions based on soil type.

Common Types of Drain Fields Illustrated in Septic Tank Diagrams

There are several variations of drain fields, and a detailed septic tank diagram drain field can help you understand which system suits your property best.

Conventional Trench Drain Field

The most common type, consisting of long trenches filled with gravel and perforated pipes. Wastewater seeps through the gravel and into the soil below. This type requires ample space and well-draining soil.

Chamber Drain Field

Instead of gravel, chambers are used to create a large void for effluent to flow through before dispersing into the soil. Chambers can handle higher flows and are easier to install.

Drip Distribution System

This system uses a network of small-diameter pipes to distribute effluent slowly over a large area. It's ideal for sites with shallow soil or bedrock and requires precise design, often shown in advanced septic tank diagrams.

Mound System

Used where the natural soil conditions are poor. A mound of sand and gravel is built above the natural soil, and drain field pipes are placed within the mound. The septic tank diagram drain field for mound systems highlights this raised structure.

Maintaining Your Septic Tank and Drain Field

A septic tank diagram drain field isn't just a blueprint—it also serves as a reminder of why upkeep is essential. Proper maintenance ensures your system works efficiently and prevents costly repairs.

Routine Pumping

Solids that don't decompose settle at the tank's bottom as sludge. Over time, sludge builds up and can overflow into the drain field, clogging it. Regular pumping—usually every 3 to 5 years—removes this buildup.

Protecting the Drain Field

Avoid parking vehicles or placing heavy structures over the drain field to prevent soil compaction. Also, limit water usage to avoid saturating the drain field, which could cause backups.

Mind Your Chemicals

Harsh chemicals, excessive bleach, or antibacterial soaps can kill the beneficial microbes in both the septic tank and soil, disrupting the natural treatment process.

Interpreting a Septic Tank Diagram Drain Field

for Troubleshooting

If you experience slow drains, odors, or pooling water near your septic system, having a clear septic tank diagram drain field can be invaluable. It helps identify where problems might be occurring—whether in the tank itself or in the drain field trenches.

By knowing the layout, a professional can inspect the inlet and outlet pipes, check for blockages, assess the baffles, and evaluate the drain field's condition. Sometimes, repairs might involve replacing a broken pipe or expanding the drain field to accommodate increased wastewater flow.

Signs Your Drain Field Needs Attention

- Persistent wet or soggy areas above the drain field.
- Strong odors near the septic system.
- Sewage backups inside the home.
- Lush, unusually green grass over the drain field.

Recognizing these symptoms early and referring back to your septic tank diagram drain field can save you from expensive system failures.

The Role of Technology in Modern Septic Systems

Modern septic systems often incorporate advanced designs and materials to improve efficiency and environmental safety. Septic tank diagrams today may include components like:

- **Effluent filters:** Prevent solids from entering the drain field.
- **Pump chambers:** For systems where gravity flow isn't feasible.
- **Aerobic treatment units:** Introduce oxygen to enhance bacterial breakdown.

These advancements, reflected in updated septic tank diagrams drain field layouts, help extend system life and minimize environmental impact.

Whether you're a homeowner looking to understand how your septic system works or considering installation, a septic tank diagram drain field offers a clear visual guide to the vital components and processes involved. By appreciating the roles of the septic tank and the drain field, along with proper maintenance practices, you can ensure your system remains efficient, safe, and environmentally friendly for years to come.

Frequently Asked Questions

What is a septic tank drain field and how does it work?

A septic tank drain field, also known as a leach field, is an underground area where the liquid wastewater from a septic tank is dispersed and naturally filtered through the soil. It works by allowing the effluent to percolate through the soil, which removes harmful bacteria, viruses, and nutrients before the water re-enters the groundwater system.

How is a septic tank connected to the drain field in a diagram?

In a septic system diagram, the septic tank is connected to the drain field via an outlet pipe. Wastewater flows from the house into the septic tank where solids settle, and the clarified liquid exits through the outlet pipe and is distributed evenly across the drain field trenches or beds.

What are the main components shown in a septic tank drain field diagram?

A typical septic tank drain field diagram includes the septic tank, inlet and outlet pipes, distribution box, perforated drain pipes, gravel or stone bedding, and the soil absorption area. The diagram illustrates how wastewater flows through each component to be treated and absorbed safely.

Why is proper placement of the drain field important in a septic system diagram?

Proper placement of the drain field is crucial to ensure effective wastewater treatment and prevent contamination of water sources. The drain field should be located downhill and away from wells, buildings, and water bodies, with enough space to allow for soil absorption and to avoid system failure.

How can a septic tank drain field diagram help in maintenance and troubleshooting?

A septic tank drain field diagram provides a clear layout of the system components and their connections, which helps homeowners and professionals locate parts easily during inspections, maintenance, or repairs. It aids in identifying potential problem areas such as clogged pipes or saturated soil.

What materials are typically used in the construction of a drain field as shown in diagrams?

Drain fields usually consist of perforated PVC or corrugated pipes laid in trenches filled with gravel or stone. The pipes distribute effluent evenly, while the gravel provides a

medium for filtration and supports soil aeration, as commonly depicted in septic system diagrams.

How does soil type affect the design of a septic tank drain field in diagrams?

Soil type influences the size and layout of the drain field shown in septic system diagrams. Sandy soils with good permeability may require smaller drain fields, while clay soils with poor drainage need larger or specially designed drain fields to ensure proper effluent absorption and treatment.

Can a septic tank drain field be expanded or modified according to diagram guidelines?

Yes, a septic tank drain field can be expanded or modified if the existing system is failing or needs to accommodate increased wastewater flow. Diagrams guide the design of additional trenches or beds, ensuring proper spacing and soil conditions to maintain system efficiency and prevent contamination.

Additional Resources

Septic Tank Diagram Drain Field: Understanding the Essentials of On-Site Wastewater Treatment

septic tank diagram drain field systems represent a fundamental component of residential and commercial wastewater management in areas lacking centralized sewage infrastructure. Grasping the intricacies of a septic system, particularly the interaction between the septic tank and the drain field, is essential for property owners, engineers, and environmental professionals alike. This article delves into the structural and functional aspects of septic tank diagram drain field setups, offering a detailed, professional exploration of their design, operation, and maintenance considerations.

Decoding the Septic Tank Diagram Drain Field System

At its core, a septic system is a self-contained wastewater treatment structure that processes and disposes of domestic sewage on-site. The system typically comprises two main components: the septic tank, where solids settle and begin decomposition, and the drain field (or leach field), which facilitates the dispersal and filtration of effluent into the soil. A septic tank diagram drain field layout visually illustrates how these components interconnect and operate cohesively.

The septic tank serves as the initial treatment chamber. Wastewater flows from the household plumbing into the tank, where gravity separates solids from liquids. Heavier solids settle to the bottom, forming sludge, while lighter materials, including oils and

grease, float upward to create a scum layer. The clarified liquid in the middle layer, known as effluent, exits the tank and travels to the drain field for further treatment.

The drain field is a series of perforated pipes buried in trenches filled with gravel or aggregate material. The effluent percolates through the gravel and soil, where natural microbial activity breaks down harmful pathogens and nutrients. This process safeguards groundwater quality by preventing contamination.

Key Components Illustrated in a Septic Tank Diagram Drain Field

Understanding the typical elements depicted in a septic tank diagram drain field is critical for diagnosing system performance and planning maintenance:

- **Inlet Pipe:** Connects the household plumbing to the septic tank, channeling raw sewage into the tank.
- **Septic Tank:** Usually a concrete or fiberglass container designed to hold wastewater long enough for solids to separate.
- **Baffles or Tees:** Installed at the tank's inlet and outlet to prevent scum and sludge from escaping into the drain field.
- **Outlet Pipe:** Transports effluent from the septic tank to the drain field.
- **Drain Field Trenches:** Long, shallow trenches filled with gravel and perforated pipes that distribute effluent evenly.
- **Soil Absorption Area:** The surrounding soil acts as a natural filter, further purifying the effluent.

The synergy between these components ensures the system's efficacy in treating wastewater environmentally and economically.

Functionality and Environmental Impact of Septic Tank and Drain Field Systems

The operational principle behind the septic tank diagram drain field system centers on natural separation and biodegradation processes. By allowing solids to settle and partially decompose within the tank, the system reduces the organic load entering the drain field. This approach prolongs the lifespan of the soil absorption area and minimizes the risk of system failure.

However, the effectiveness of the drain field largely depends on soil composition, permeability, and local groundwater conditions. Sandy or gravelly soils with high permeability facilitate efficient effluent dispersal, while clay-heavy soils may impede drainage, leading to potential backups or surface pooling. Thus, site evaluation using percolation tests is often a prerequisite before system installation.

From an environmental perspective, well-designed septic tank diagram drain field systems offer a sustainable alternative to municipal sewage treatment by treating wastewater on-site and reducing infrastructure demands. Conversely, poorly maintained or improperly designed systems can pose significant threats, including groundwater contamination with nitrates, pathogens, and chemical pollutants.

Comparative Analysis: Conventional vs. Advanced Septic Systems

While traditional septic tank and drain field configurations remain prevalent, technological advancements have introduced alternative designs aiming to enhance performance:

- **Conventional Systems:** Utilize gravity-fed tanks and drain fields with minimal mechanical components. They are cost-effective but reliant on suitable soil conditions.
- **Chamber Systems:** Replace gravel-filled trenches with plastic chambers to improve effluent distribution and reduce installation complexity.
- **Pressure Distribution Systems:** Employ pumps to evenly distribute effluent, especially on sites with uneven terrain or poor soil.
- **Advanced Treatment Units:** Incorporate aerobic treatment or filtration technologies to enhance effluent quality before it reaches the drain field.

Selecting the appropriate septic tank diagram drain field system requires balancing cost, site characteristics, and environmental regulations.

Maintenance and Troubleshooting Insights from Septic Tank Diagrams

Interpreting a septic tank diagram drain field layout aids homeowners and service professionals in identifying potential issues and scheduling preventative maintenance. Key maintenance practices include:

1. **Regular Pumping:** Removing accumulated sludge and scum every 3 to 5 years to

prevent clogging and overflow.

2. **Inspecting Baffles:** Ensuring inlet and outlet baffles remain intact to maintain proper flow and prevent solids migration.
3. **Monitoring Drain Field Health:** Observing for signs of failure such as soggy ground, foul odors, or slow draining fixtures.
4. **Limiting Water Usage:** Avoiding excessive water input which can saturate the drain field and reduce treatment efficiency.

A detailed septic tank diagram drain field schematic also assists in pinpointing the exact location of system components, facilitating targeted repairs and minimizing excavation costs.

Common Causes of Drain Field Failure

Despite their reliability, drain fields can fail due to several factors:

- **Soil Saturation:** Excessive water from heavy rainfall or overuse can overwhelm the absorption capacity.
- **Clogging:** Accumulation of solids or biofilm in the soil pores reduces permeability.
- **Physical Damage:** Compaction from vehicles or construction can impair soil structure.
- **Tree Root Intrusion:** Roots may infiltrate pipes and block flow.

Understanding these failure modes through the lens of a septic tank diagram drain field representation enables proactive management and system longevity.

Regulatory Considerations and Installation Best Practices

Municipal codes and environmental regulations govern septic tank and drain field installation to protect public health and ecosystems. Compliance typically involves:

- Permitting and site evaluation to assess soil suitability.
- Adherence to minimum setback distances from wells, water bodies, and property

lines.

- Use of approved materials and system designs.
- Post-installation inspections to verify proper function.

Professionals rely on septic tank diagram drain field designs to ensure installations meet these requirements and optimize system performance.

Furthermore, best practices emphasize:

- Locating the drain field on well-drained, level ground.
- Designing trench dimensions based on anticipated wastewater volume.
- Incorporating access risers for ease of maintenance.
- Educating property owners about system care and limitations.

These strategies contribute to sustainable wastewater management and reduced environmental impact.

In sum, a septic tank diagram drain field setup embodies a critical intersection of engineering, environmental science, and practical household utility. By understanding its components, functions, and maintenance imperatives, stakeholders can ensure these systems operate safely and efficiently for decades.

Septic Tank Diagram Drain Field

septic tank diagram drain field: *The Septic System Owner's Manual* Lloyd Kahn, 2007 Septic systems for handling sewage have to be maintained but little information is available on the subject. This manual explains how they work, the potential problems that owners often encounter and how to repair them when they go awry.

septic tank diagram drain field: *Rural Lakes Alternative Waste Treatment Systems* , 1983

septic tank diagram drain field: **Technical Reference Documents Supporting the Generic Environmental Impact Statement for Wastewater Management in Rural Lake Areas** , 1983

septic tank diagram drain field: **Final Generic Environmental Impact Statement for Wastewater Management in Rural Lake Areas** , 1983

septic tank diagram drain field: *Draft Generic Environmental Impact Statement for Wastewater Management in Rural Lake Areas* , 1981

septic tank diagram drain field: **Ecohouse** Susan Roaf, 2007-08-31 Now in its 3rd edition, the bestselling Ecohouse continues to be both a technical guide and an inspiration for thousands of architects, designers and eco-builders all over the world. As the need to slow climate change

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septic tank diagram drain field: Supporting the Generic Environmental Impact Statement for Wastewater Management in Rural Lake Areas Gerald O Peters, 1983

septic tank diagram drain field: Hydrogeology Kevin M. Hiscock, Victor F. Bense, 2021-11-08 HYDROGEOLOGY Hydrogeology: Principles and Practice provides a comprehensive introduction to the study of hydrogeology to enable the reader to appreciate the significance of groundwater in meeting current and future environmental and sustainable water resource challenges. This new edition has been thoroughly updated to reflect advances in the field since 2014 and includes over 350 new references. The book presents a systematic approach to understanding groundwater starting with new insights into the distribution of groundwater in the Earth's upper continental crust and the role of groundwater as an agent of global material and elemental fluxes. Following chapters explain the fundamental physical and chemical principles of hydrogeology, and later chapters feature groundwater field investigation techniques in the context of catchment processes, as well as chapters on groundwater quality and contaminant hydrogeology, including a section on emerging contamination from microplastic pollution. Unique features of the book are chapters on the application of environmental isotopes and noble gases in the interpretation of aquifer evolution, and a discussion of regional characteristics such as topography, compaction and variable fluid density on geological processes affecting past, present and future groundwater flow regimes. The last chapter discusses future challenges for groundwater governance and management for the long-term sustainability of groundwater resources, including the role of managed aquifer recharge, and examines the linkages between groundwater and climate change, including impacts on cold-region hydrogeology. Given the drive to net-zero carbon emissions by 2050, the interaction of groundwater in the exploitation of energy resources, including renewable resources and shale gas, is reviewed. Throughout the text, boxes and a set of colour plates drawn from the authors' teaching and research experience are used to explain special topics and to illustrate international case studies ranging from transboundary aquifers and submarine groundwater discharge to the hydrogeochemical factors that have influenced the history of malting and brewing in Europe. The appendices provide conversion tables and useful reference material, and include review questions and exercises, with answers, to help develop the reader's knowledge and problem-solving skills in hydrogeology. This highly informative and accessible textbook is essential reading for undergraduate and graduate students primarily in earth sciences, environmental sciences and physical geography with an interest in hydrogeology or groundwater topics. The book will also find use among practitioners in hydrogeology, soil science, civil engineering and landscape planning who are involved in environmental and resource protection issues requiring an understanding of groundwater.

septic tank diagram drain field: Alternative Waste Treatment Systems R. Bhamidimarri, 2003-10-04 Proceedings of the International Conference held at Massey University, Palmerston North, New Zealand, 26-27 May 1988.

septic tank diagram drain field: Handbook Of Environment And Waste Management: Air And Water Pollution Control Yung-tse Hung, Lawrence K Wang, Nazih K Shammas, 2012-02-13 The Handbook of Environment and Waste Management, Volume 1, Air and Water Pollution Control, is a comprehensive compilation of topics that are at the forefront of many technical advances and practices in air and water pollution control. These include air pollution control, water pollution control, water treatment, wastewater treatment, industrial waste treatment and small scale wastewater treatment. Internationally recognized authorities in the field of environment and waste management contribute chapters in their areas of expertise. This handbook is an essential source of reference for professionals and researchers in the areas of air, water, and waste management, and as a text for advanced undergraduate and graduate courses in these fields.

septic tank diagram drain field: Lake and Pond Management Guidebook Steve McComas, 2003-01-30 The Lake and Pond Management Guidebook is the successor to the bestselling Lake Smarts: The First Lake Maintenance Handbook, the bible for small-scale lake and pond improvements, published by the Terrene Institute in 1993. Completely revised and updated, now published by Lewis Publishers, this guidebook contains over 300 ideas and projects includ

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septic tank diagram drain field: Environmental Assessment, Management of Backcountry Chalets, 1993

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septic tank diagram drain field: The Hunting and Fishing Camp Builder's Guide Monte Burch, 2012-05 There cannot be a hunter and angler who has not, at some time or other, daydreamed about building his or her own camp. Hunting & Fishing Camp Builder's Guide provides the concepts, plans, and know-how to turn a daydream into a reality. Monte Burch applies decades of how-to skills to describe the ins and outs of design and construction. From the cabin to the furniture inside, you can do it all yourself and create the camp or lodge of your dreams. Skyhorse Publishing is proud to publish a broad range of books for hunters and firearms enthusiasts. We publish books about shotguns, rifles, handguns, target shooting, gun collecting, self-defense, archery, ammunition, knives, gunsmithing, gun repair, and wilderness survival. We publish books on deer hunting, big game hunting, small game hunting, wing shooting, turkey hunting, deer stands, duck blinds, bowhunting, wing shooting, hunting dogs, and more. While not every title we publish becomes a New York Times bestseller or a national bestseller, we are committed to publishing books on subjects that are sometimes overlooked by other publishers and to authors whose work might not otherwise find a home.

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septic tank diagram drain field: Bulletin ... Kansas State University. Engineering Experiment Station, 1914

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