

Glossary

Hazardous Waste Management

These terms may help you make more accurate assessments when completing Worksheet #5. They may also help clarify some of the terms used in Fact Sheet #5.

Burn barrel: Any on-farm system of open burning, such as burning in a barrel. (See **incinerator**.)

Dump: A local landfill that is not designed to prevent leaching and offers little groundwater protection.

Hazardous waste contractor: A hazardous waste collection service offered by businesses with vehicles licensed to transport hazardous waste to licensed hazardous waste facilities.

Household hazardous waste: Any waste material (including garbage, trash and sanitary waste in septic tanks) derived from households, including single and multiple residences, hotels and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas.

Household hazardous waste collection program: A special program in which a community collects waste for disposal in a specially constructed hazardous waste landfill or incinerator.

Incinerator (municipal): A community incinerator specifically engineered to burn municipal quantities of home waste.

Incinerator (on-farm): Any home-built incinerator or any incinerator purchased for home use.

Licensed landfill: A landfill specifically designed to protect groundwater through the use of a high quality clay or clay/impermeable film liner, accompanied by a system of buried pipes to collect any liquids generated. Meets current state standards.

On-farm disposal: Any method of burning, dumping or land spreading of wastes on the farm. Also includes use of the septic system for disposal.

Recycling: Reusing waste materials to develop another product.

Solvent recycler collection service: A pick-up service provided by businesses that reprocess used solvents.

Hazardous Waste Management: Assessing Drinking Water Contamination Risk

1. Use a pencil. You may want to make changes.
2. For each category listed on the left that is appropriate to your farmstead, read across to the right and circle the statement that **best** describes conditions on your farmstead. (Skip and leave blank any categories that don't apply to your farmstead.)
3. Then look above the description you circled to find your "rank number" (4, 3, 2 or 1) and enter that number in the blank under "your rank."
4. Directions on overall scoring appear at the end of the worksheet.
5. Allow about 15-30 minutes to complete the worksheet and figure out your risk ranking for hazardous waste disposal practices.

	LOW RISK (rank 4)	LOW-MOD RISK (rank 3)	MOD-HIGH RISK (rank 2)	HIGH RISK (rank 1)	YOUR RANK
ASH DISPOSAL					
From farm burn-barrel or incinerator	Ash collected and disposed of at licensed hazardous waste facility.	Disposal of ash from dry combustibles only, on farm or at dump, or spread on fields.	Disposal of ash from mixed trash at dump or on farm away from well.	Disposal of ash from mixed trash on farm in consistent location near well.	_____
BUILDING/WOOD MAINTENANCE PRODUCTS					
Adhesives, such as caulk and solvent-based glues	Used up or shared with someone else. Hazardous waste contractor collection service used for leftover adhesives.	Liquid evaporated in open air.* Sludge or leftover product taken to licensed landfill or municipal incinerator.	Disposal at dump.	Disposal on farm.	_____
Brush or spray gun cleaners (solvent based)	Cleaned in contained, ventilated area. Solvent recycler collection service used for leftover cleaners.	Cleaned in contained, ventilated area. Filtered cleaning solvents reused or evaporated in open air.* Sludge taken to licensed landfill or municipal incinerator.	Cleaned in uncontained, ventilated area and used cleaning solvents disposed of at dump.	Disposal of leftover cleaning solvents on farm.	_____
Lead-based paint	Hazardous waste contractor collection service used.	Liquid evaporated in open air.* Paint or sludge taken to licensed landfill or municipal incinerator.	Disposal of sludge or paint at dump.	Disposal on farm.	_____

Boldface type: These actions **are not legal** for wastes generated from the farm business. (Household wastes are exempt from regulation.) If you are unsure of how to dispose of specific wastes, contact NJDEP Bureau of Technical Assistance at (609) 984-6620.

*These actions require a permit from NJDEP. Contact the Air Quality Permitting Program at (609) 984-6721 for further information.

	LOW RISK (rank 4)	LOW-MOD RISK (rank 3)	MOD-HIGH RISK (rank 2)	HIGH RISK (rank 1)	YOUR RANK
BUILDING/WOOD MAINTENANCE PRODUCTS (continued)					
Paint or stain (no lead)	Used up or shared with someone else. Hazardous waste contractor used for leftover paint or stain.	Liquid evaporated in open air.* Paint or sludge taken to licensed landfill or municipal incinerator.	Disposal of oil-based paints or stains at dump. Latex paint disposal on farm away from well.	Disposal of oil-based paints or stains on farm.	_____
Stripper or thinner for paint/finish	Spills contained. Unused products used up. Hazardous waste contractor collection service used for leftover stripper or finish.	Liquid evaporated in open air.* Stripper or stripper sludge taken to licensed landfill or municipal incinerator.	Disposal of sludge, stripper or thinner at dump.	Disposal on farm.	_____
Surface cleaners (solvent based)	Used up or shared with someone else. Hazardous waste contractor collection service used for leftover cleaners.	Liquid cleaners evaporated in open air.* Cleaners or sludge taken to licensed land-fill or municipal incinerator.	Disposal of sludge or cleaners at dump.	Disposal on farm.	_____
CONTAINER DISPOSAL					
Paper/cardboard pesticide container	Returned to supplier or hazardous waste collection service used.	Empty container taken to licensed landfill, municipal incinerator or dump.**	Disposal of triple-rinsed empty container on farm.	Disposal of partially filled container on farm.	_____
Plastic pesticide container	Triple-rinsed container returned to retail store for reuse, or taken to licensed landfill or municipal incinerator. Rinsate applied to appropriate crop.	Unrinsed container disposed of at licensed landfill, municipal incinerator or dump.**	Disposal of empty but unrinsed container on farm. Disposal of triple-rinsed container on farm.	Disposal of partially filled container on farm.	_____

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** Solid waste may only be disposed of at a permitted solid waste facility. Check with your county office of solid waste for specific regulations.

	LOW RISK (rank 4)	LOW-MOD RISK (rank 3)	MOD-HIGH RISK (rank 2)	HIGH RISK (rank 1)	YOUR RANK
CONTAINER DISPOSAL (continued)					
Plastic container for oil or other vehicle product	Product used up and container recycled.	Any remaining ingredients evaporated in safe conditions. Empty container taken to licensed landfill or municipal incinerator.	Disposal of empty container at dump or on farm.	Disposal of partially filled container on farm.	_____
Hazardous household product containers	Taken to recycling facility or reused for similar product.	Empty container taken to licensed landfill, municipal incinerator or dump .	Disposal of empty container on farm.	Disposal of partially filled container on farm.	_____
PESTICIDES					
Unwanted or banned pesticides	Participation in EPA banned pesticide buy-back program if available. Unused pesticides returned to place of purchase. Hazardous waste contractor collection service used.	Pesticides sold for restricted or general purposes used up or taken to licensed landfill or municipal incinerator.	Disposal of unused pesticides at dump.	Disposal of unused pesticides on farm.	_____
VEHICLE/METAL EQUIPMENT MAINTENANCE PRODUCTS					
Used antifreeze	Saved and taken to antifreeze recycling facility, or filtered and reused as water in other radiators.	Collected and disposed of at municipal sewage treatment drain with permission of municipality. Taken to licensed landfill, municipal incinerator or dump .	Disposal on farm away from well (including in septic system).	Dumped near well.	_____

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	LOW RISK (rank 4)	LOW-MOD RISK (rank 3)	MOD-HIGH RISK (rank 2)	HIGH RISK (rank 1)	YOUR RANK
VEHICLE/METAL EQUIPMENT MAINTENANCE PRODUCTS (continued)					
Waste oil and grease	Collected by a hazardous waste contractor.	Reused for lubrication. Burned for heat in an residential incinerator , or collected and disposed of at licensed hazardous waste facility.	Disposal at dump.	Disposal on farm.	_____
Waste oil sludge (left over after burning)	Hazardous waste contractor services used.	Collected and disposed of at licensed hazardous waste facility.	Disposal at dump.	Disposal on farm.	_____
Spent organic solvent/parts cleaner	Solvent recycler collection service used for leftover cleaners.	Filtered in ventilated area and reused or evaporated in open air . Sludge taken to licensed landfill or municipal incinerator.	Disposal of solvents or sludge at dump.	Disposal of solvents or sludge on farm.	_____
Rust-removal products	Used up or shared with someone else. Hazardous waste contractor services used.	Taken to licensed landfill, municipal incinerator or dump. *	Disposal of left-over product on farm.	Disposal of used product on farm.	_____
Lead acid battery	Taken to battery recycler or battery store.	Used batteries taken to licensed landfill or municipal incinerator; or stored away from well.	Used batteries taken to dump or stored near well.	Disposal on farm near well.	_____

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* Illegal if the substance meets the definition of a hazardous waste.

	LOW RISK (rank 4)	LOW-MOD RISK (rank 3)	MOD-HIGH RISK (rank 2)	HIGH RISK (rank 1)	YOUR RANK
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VEHICLE/METAL EQUIPMENT MAINTENANCE PRODUCTS (continued)

Vehicle maintenance drips and spills	Contained on paved area with sawdust. Contaminated sawdust disposed of at licensed landfill or municipal incinerator.	Contained on paved area with sawdust. Contaminated sawdust disposed of at dump.	Occasional flushing onto farm property near well.	Frequent flushing onto farm property near well.	_____
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WOOD PRESERVING

Application drips and spills	Drips and spills contained. Applicator and drop cloths disposed of at licensed landfill or municipal incinerator. *	Drips and spills contained. Applicator and drop cloths disposed of at dump.	Application without containment more than 150 feet from well. Applicator and drop cloths disposed of on farm.	Application without containment within 150 feet of well.	_____
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Disposal of unused preservatives	Used up or shared with someone else. Hazardous waste contractor collection service used for leftover preservatives.	Disposal at licensed landfill or municipal incinerator.	Disposal at dump.	Disposal on farm.	_____
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TOTAL

Use this total to calculate risk ranking on back page of worksheet.

What do I do with these rankings?

Step 1: Begin by determining your overall hazardous waste risk ranking. Total the rankings for the categories you completed and divide by the number of categories you ranked:

$$\frac{\text{total of rankings}}{\text{\# of categories ranked}} \text{ divided by } \frac{\text{total of rankings}}{\text{\# of categories ranked}} \text{ equals } \boxed{\text{risk ranking}}^*$$

*Carry your answer out to one decimal place.

3.6–4=low risk, 2.6–3.5=low to moderate risk, 1.6–2.5=moderate to high risk, 1–1.5=high risk

This ranking gives you an idea of how your hazardous waste practices **as a whole** might be affecting your drinking water. This ranking should serve only as a **very general guide, not a precise diagnosis**. Because it represents an **averaging** of many individual rankings, it can mask any **individual** rankings (such as 1's or 2's) that should be of concern. (See Step 2.)

Enter your boxed hazardous waste risk ranking on page 1 of Worksheet #12. Later you will compare this risk ranking with other farmstead management rankings. Worksheet #11 will help you identify your farmstead's site conditions (soil type, soil depth and bedrock characteristics), and Worksheet #12 will show you how these site conditions affect your risk rankings.

Step 2: Look over your rankings for individual activities:

- **Low-risk** practices (4's): ideal; should be your goal despite cost and effort
- **Low-to-moderate-risk** practices (3's): provide reasonable groundwater protection
- **Moderate-to-high-risk** practices (2's): inadequate protection in many circumstances
- **High-risk** practices (1's): inadequate; pose a high risk of polluting groundwater

Regardless of your overall risk ranking, any individual rankings of "1" require immediate attention. Some concerns you can take care of right away; others could be major—or costly—projects, requiring planning and prioritizing before you take action.

Find any activities that you identified as 1's and list them under "High-Risk Activities" on pages 6-7 of Worksheet #12.

Step 3: Read Fact Sheet #5, *Improving Hazardous Waste Management*, and consider how you might modify your farmstead practices to better protect your drinking water.



The New Jersey Farmstead Assessment System is a cooperative project of the USDA Natural Resources Conservation Service, Rutgers Cooperative Extension, and New Jersey Department of Environmental Protection.

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