



# Ensuring a Safe Drinking Water Supply

## Home-Owner Risk Assessment Sheet

### Keeping Hauser Lake Clean

### WORKSHEET 3

**ASSESSMENT 1 – Drinking Water Well Location**– The assessment table below will help you identify potential environmental risks related to Hauser Lake and your drinking water, if from a private well. For each question indicate your risk level in the right-hand column. Your goal is to lower your risks. Some choices may not correspond exactly to your situation. Choose the response that best fits. When finished turn to the **Action Checklist** on page 3-12 and record your medium and high-risk practices. Use the BMP recommendations in Section #3 *Ensuring a Safe Drinking Water Supply* to help you decide how to best reduce pollution.

	LOW RISK	MEDIUM RISK	HIGH RISK	YOUR RISK
<b>Position of well in relation to contamination sources:</b>	Up slope from all potential sources of contamination. No surface water runoff reaches well. Surface water diverted from well area.	Well is level to downslope from potential sources of contamination. Some surface water runoff may reach well.	Well is downhill from pollution sources or in a depression. Surface water runoff reaches well.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Separation distances between well and pollution sources (suggested minimum separation distance is 100 feet):</b>	Distances from potential pollution sources meet or exceed all state minimum requirements.	Some but not all distances from potential pollution sources meet state minimum requirements.	Distances from most or all potential pollution sources do not meet state minimum requirements.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Soil type:</b>	Soil is fine-textured like clay loams or silty clay.	Soil is medium-textured like silt or loam.	Soil is coarse-textured like sand, sandy loam, or gravel.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Subsurface conditions:</b>	The water table or fractured bedrock are deeper than 20 feet.		The water table or fractured bedrock are shallower than 20 feet.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High

**ASSESSMENT 2 – Well Construction and Maintenance** – Use the table below to rate your risks related to well construction and maintenance. When finished turn to the **Action Checklist** on page 3-12 and record your medium and high-risk practices.

	<b>LOW RISK</b>	<b>MEDIUM RISK</b>	<b>HIGH RISK</b>	<b>YOUR RISK</b>
<b>Well age:</b>	Constructed since Idaho well guidelines were enacted in 1987.	Well meets Idaho requirements, but constructed prior to 1987.	Not constructed according to Idaho regulations.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Well type:</b>	Drilled well.	Driven-point well.	Dug well.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Casing height above land surface:</b>	Casing extends 12 or more inches above the surface, if the area floods, casing is above flood levels.	Casing is at the surface or up to 12 inches above the surface.	No casing present. Hand dug well. Pump at or below ground surface.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Condition of casing and well cap:</b>	No holes or cracks are visible. Cap is tightly attached. A screened vent faces the ground. No space around the pitless adapter.	Casing showing visible stress fractures. Cap is loose and no screen present.	Holes or cracks are visible. Cap is loose or missing. Running water can be heard or seen. Ground around casing is sunken.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Casing depth and surface seal (see well log for this information):</b>	Casing extends below water level in well and is more than 18 feet below surface. At least 18 feet of surface seal is in place, or into the confining layer above the aquifer in which the well is completed.	Surface seal missing or less than required depth (an 18 foot surface seal is required for all new well installations. Placement of a surface seal in all wells is required)	No surface seal.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Backflow protection:</b>	Anti-backflow devices (such as check valves) installed. No cross-connections between water supplies.		No anti-backflow devices. Air gap not maintained. Cross-connections between water supplies.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Water testing:</b>	Regular annual testing. Records indicate consistent, satisfactory water quality. Bacteria, nitrate, and other tests meet standards.	Regular testing. Bacteria, nitrate, and other tests do not meet standards some of the time but are closely monitored.	No water testing. Water taste, clarity, and smell change throughout the seasons.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Unused Wells:</b>	There are no unused wells, or there are unused wells that are properly sealed.	There are old wells partially used, but are maintained to keep out contaminants.	Unused, unsealed wells, near the lake or drinking water well.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High

**ASSESSMENT 3 – Drinking Water Source and Conveyance System** – Use the table below to rate your risks related to drinking from Hauser Lake or any of its tributaries. Note: DEQ does not recommend drinking from Hauser Lake or any other surface water source without an approved treatment process. Please review Section #3 *Ensuring a Safe Drinking Water Supply* for more information. When finished turn to the **Action Checklist** on page 3-12 and record your medium and high-risk practices.

	LOW RISK	MEDIUM RISK	HIGH RISK	YOUR RISK
<b>Drinking water source:</b>	Deep groundwater. Over 20 feet deep.	Shallow ground water. Under 20 feet.	Hauser Lake or any other surface water source (streams, creeks, ponds).	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Conveyance system:</b>	Properly constructed drilled well.	Hand dug, or driven point well.	Pump and a pipe that extends into the water.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Separation distances between surface water and pollution sources (suggested minimum separation distance is 100 feet):</b>	Distances from potential pollution sources meet or exceed all state minimum requirements. Septic Tank to surface water over 50 feet. Drain Field to surface water– 100 to 300 feet depending on soil type (see Section #3).	Some but not all distances from potential pollution sources meet state minimum requirements.	Distances from most or all potential pollution sources do not meet state minimum requirements.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Home water-treatment system for surface water:</b>	A two-step treatment system. Water is fine filtered through a membrane filter certified by the National Sanitation Foundation for Giardia and Cryptosporidium Cysts. Then water is disinfected by boiling, using chlorine, or by ultraviolet light.	Granular Activated Carbon filter (generally a good filter, but are not as effective against microorganisms and bacteria). Water should also be disinfected.	No treatment or a screen or a t-shirt wrapped around the end of the pipe.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
<b>Water testing:</b>	Regular annual testing. Records indicate consistent, satisfactory water quality. Bacteria, nitrate, and other tests meet standards.	Tested once in the last 5 years. Bacteria, nitrate, and other tests do not meet standards some of the time but are closely monitored.	No water testing. Water taste, clarity, and smell change throughout the seasons.	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High

