

**SOURCE WATER ASSESSMENT  
EXECUTIVE SUMMARY  
FOR  
Pinedale**

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**June 30, 2004**

**PROJECT: 424-001**

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**ASSESSMENT COMPLETED BY: TRIHYDRO CORPORATION**

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## **SOURCE WATER ASSESSMENT SUMMARY FOR Pinedale**

### **PWS Source Water Assessment Summary**

Pinedale Municipal Water System is a community surface water system located in Sublette County. The system serves 1,300 people per day through 700 service connections year-round. The system is supplied by one surface water intake that obtains water from Fremont Lake. Additionally, facilities include water treatment units and interconnecting transmission lines. Disinfectant is injected into the transmission line from the lake. The water source scored medium with respect to the combined integrity and aquifer sensitivity. The town scored low with respect to land use susceptibility and high with respect to point source susceptibility.

### **Delineation Methods**

This water system is a community system that draws water from surface water. Surface water mapping methods were used to determine contaminant inventory zones 2 and 3.

The surface water source area was delineated using surface topographic techniques. Zone 2 for included an area 1,000 feet around the high water line of Fremont Lake. Zone 3 for the intake includes the entire stream drainage basin from Zone 2 to the basin headwaters.

### **Surface Water Sources**

Pinedale draws water from one surface water intake. The intake obtains water from Fremont Lake. As shown on the enclosed source water area delineation map, contaminant inventory zones 2 and 3 were delineated using surface water mapping methods. Zone 2 consists of a 1000 foot buffer zone area around Fremont Lake. Zone 3 encompasses Fremont Lake and drainage basin into the lake.

### **Integrity Summary**

Pinedale supplies water from one surface water intake. The intake was constructed after 1993, when stringent construction standards were required by the State of Wyoming. Additional information on this intake is included on the attached Surface Water Information Sheet. Records indicated that the area around the intake is unrestricted and not inspected regularly to protect against the infiltration of potential contaminants. As shown on the Integrity Summary Table, the intake received an integrity score of 5. This score primarily reflects the fact that the intake is not restricted or inspected regularly.

### **Water Source Sensitivity Summary**

As shown on the Source Sensitivity Summary Table, the surface water intake received a sensitivity score of 10. The intake scored the maximum sensitivity score for two reasons. The first reason is that surface water intakes are more vulnerable to contamination due to

unpredictable flow pathways and their proximity to the ground surface. The second reason is that there are documented chemical detections in the water supply.

### **Water System Susceptibility Rating**

Susceptibility is defined as the potential for a public water supply to draw contaminated water at concentrations that would pose a threat or concern to human health. In general, the Town of Pinedale scored low for land use susceptibility. The overall point source contaminant susceptibility rating is high due to an underground injection site within Zone 2 of the water source. Susceptibility ratings for each type of potential contaminant source are summarized on the attached susceptibility tables.

A review of your PWS's routine water analysis results revealed that one or more chemicals that are considered contaminants in drinking water were detected at some time within the last five years. Chemical detections have a large impact on your PWS's sensitivity score because it may indicate that there is a pathway for contaminants to reach the water supply. However, it is likely that these chemicals are present only in small amounts and are not a danger to your health. Some of these chemicals may also occur naturally in water.

For more information about which chemicals were detected, please contact the PWS for a copy of the most recent Consumer Confidence Report or water analysis results. Chemical detections at levels that are a concern to human health are reported on the EPA's website: [http://www.epa.gov/enviro/html/sdwis/sdwis\\_query.html](http://www.epa.gov/enviro/html/sdwis/sdwis_query.html). To see if your PWS has exceeded the federal primary or secondary drinking water standards, just click on the State of Wyoming and then type in the name of your PWS. Consumer Confidence Reports are prepared by the PWS on a yearly basis. The reports should include information about any chemicals found in the water, even those found at very low levels. Please contact Kim Parker at DEQ, 307-777-7781, or WARWS for assistance. You may also contact EPA to find out what contaminants were detected. You may have to fill out a Freedom of Information Act request to obtain the water test results for your PWS. Please call EPA's Safe Drinking Water Hotline at 1-800-426-4791.

**POINT SUSCEPTIBILITY SUMMARY TABLE  
FOR Pinedale  
Point Source Susceptibility Summary**

It may appear from the results of this point source susceptibility summary table that your system has too many PSOCs influencing the final ratings. In some cases, a specific PSOC falls within a specific contaminant inventory zone shared by multiple wells or intakes. When this is the case, that PSOC will be scored for each intake. For example, an underground storage tank may appear within a contaminant inventory zone shared by four different wells. This would cause that single storage tank to be entered into the table four times, or once for each well or intake.

Point Source Type	Low	Medium	High
Underground Injection	N/A	N/A	1

- \* Illustrates the number of PSOCs in a particular rating class for all water sources
- \* N/A - Not Applicable