

Maxey, Shaun

From: Kristina Keating [KKeating@phd1.idaho.gov]
Sent: Friday, December 21, 2012 8:10 AM
To: Maxey, Shaun
Subject: ID1280275-Junction Quick Stop-FY2012
Attachments: ID1280275-Junction Quick Stop-FY2012.xls; ID1280275-Junction Quick Stop-FY2012.doc

Good Morning Shaun,

I've attached our most recent Sanitary Survey, which was completed in April of this year. According to our information, the water source for Junction Quick Stop is the well drilled in 1983. The tag number on the well is EO005921. Please let me know if you need anything else.

Thanks,

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JUNCTION QUICK STOP (PWSNO 1280275) SOURCE WATER ASSESSMENT REPORT

January 14, 2003



State of Idaho Department of Environmental Quality

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SOURCE WATER ASSESSMENT FOR JUNCTION QUICK STOP

Under the Federal Safe Drinking Water Act Amendments of 1996, all states are required by the U.S. Environmental Protection Agency (EPA) to assess every source of public drinking water for its relative sensitivity to contaminants regulated by the Act. The Department of Environmental Quality is completing the assessments for all Idaho public drinking water systems. The assessment for your drinking water source is based on well construction characteristics; site specific sensitivity factors associated with the aquifer the water is drawn from; a land use inventory inside the well recharge zone; and water quality history. For non-community transient water systems like Junction Quick Stop, recharge zones were generally delineated as a 1000-foot fixed radius around the wells.

This report, *Source Water Assessment for Junction Quick Stop* describes factors used to assess the susceptibility to contamination. The analysis relies on information from the well log; an inventory of land use inside the delineation boundaries, well site characteristics, potential contaminant sites identified through a Geographic Information System database search; and information from the public water system file. The ground water susceptibility analysis worksheet for Junction Quick Stop is attached.

Taken into account with local knowledge and concerns, this assessment should be used as a planning tool to develop and implement appropriate protection measures for this system. **The results should not be used as an absolute measure of risk and are not intended to undermine the confidence in your water system.**

Well Construction. The Junction Quick Stop water system serves a convenience store and mobile home located about 0.3 miles south of the junction between Interstate 90 and State Highway 3 near Rose Lake, Idaho. A 110-foot deep well that was drilled in 1983 provides drinking water for the system.

The 6-inch steel well casing extends from 30 inches above ground surface to a depth of 93 feet where it terminates in a water-bearing shale stratum. The casing is fitted with a watertight well cap that was in need of repair when the system was inspected in March 2002. The well log for Junction Quick Stop indicates that the well was sealed with puddling clay, but does not document the seal depth. The static water level is 9 feet below the surface. With the pump set 89 feet below the surface, the well produced 12 gallons per minute when it was tested at the time it was drilled. The well is in the 100-year flood plain for Fourth of July Creek.

Well Site Characteristics. Hydrologic sensitivity scores are derived from information on the well log and from the soil drainage classification inside the recharge zone delineated for your well. Soils covering about 56 per cent of the well recharge zone for the Junction Quick Stop well are classed as moderately well drained to well drained. At the well site, clay predominates in the soil column. Water was first encountered in a broken shale layer 6 to 11 feet below the surface. 73 feet of clay form an aquitard that helps protect the deeper water table found from 91 to 110 feet below the surface from vertical transport of contaminants.

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WELL



WELL



WELL



PRESSURE TANK AND COMPONENTS



PUMP HOUSE

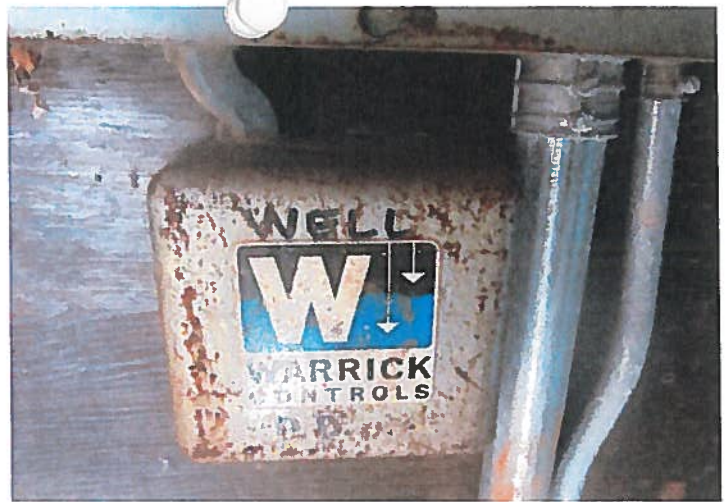


CHECK VALVE

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PRESSUSRE SWITCH AND GAUGE



HOSE BIB



TAG



HOSE BIB



PUMP CONTROLS

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