

**Rush River Assessment Project**  
**Summary of 2003 Well Water Clinic Results**

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**Arsenic**

Number of wells tested 183  
 Number of wells testing greater than 10 ppb arsenic 68 (37%)  
 Number of wells testing less than 10 ppb arsenic 115 (63%)

**Bacteria**

Number of wells tested 175  
 Number of wells testing positive for bacteria 43 (25%)  
 Number of wells testing negative for bacteria 132 (75%)

**Nitrate**

Number of wells tested 182  
 Number of wells testing greater than 10 ppm nitrate 9 (5%)  
 Number of wells testing less than 10 ppm nitrate 173 (95%)

**Sample Results and Correlation to Well Depth**

Well Depth	Total Number Wells Tested		Wells >10 ppb Arsenic		Wells with Bacteria		Wells >10 ppm Nitrate	
	# Wells	Percent	# Wells	Percent	# Wells	Percent	# Wells	Percent
0 to 99 ft	26-27	<b>14.5%</b>	9	<b>13%</b>	10	<b>23%</b>	5	<b>56%</b>
100 to 199 ft	39-42	<b>22.5%</b>	25	<b>37%</b>	7	<b>16%</b>	2	<b>22%</b>
200 to 299 ft	55-56	<b>30.5%</b>	19	<b>28%</b>	11	<b>26%</b>	0	<b>0%</b>
> 300 ft	33-36	<b>19.5%</b>	7	<b>10%</b>	9	<b>21%</b>	0	<b>0%</b>
Unknown	22-24	13%	8	12%	6	14%	2	22%

**Conclusions**

**Arsenic**

37% of wells tested above the recommended drinking water standard for arsenic in well water. Elevated arsenic concentrations were found at all well depths. The majority of wells that have elevated arsenic concentrations are found in the 100 ft to 300 ft range. Geographically, wells with elevated arsenic are found throughout the watershed. However, north of Gibbon and south of Gaylord appear to be locations where several wells have higher arsenic concentrations. In general, wells in the far eastern and southern portions of the watershed had lower arsenic concentrations.

**Bacteria**

25% of wells tested positive for bacterial contamination. Of these 43 wells, 2 wells tested positive for E. Coli bacteria. There is no correlation between well depth and bacterial results. Location in the watershed does not seem correlated to results.

**Nitrate**

5% of wells tested above the drinking water standard for nitrate in well water. These wells correlated with well depth. All 9 wells that exceeded the drinking water standard for nitrate were under 140 ft in depth. There is no correlation between location in the watershed and concentration.