

Water-Data Report 2007

**473423095053301 Local number WLN04 147N35W02CDCBDD Bemidji 310D**

Sand and gravel aquifers (glaciated regions)  
Des Moines Outwash  
Beltrami County, MN

LOCATION.--Lat 47°34'23", long 95°05'33" referenced to North American Datum of 1927, in SW ¼ SE ¼ SW ¼ sec.2, T.147 N., R.35 W., Beltrami County, MN, Hydrologic Unit 07010101, northwest of Bemidji.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Depth 34.83 ft. Upper casing diameter 2 in, top of first opening 30.08 ft, bottom of last opening 33.08 ft. Drilled water-table observation well.

DATUM.--Land-surface datum is 1420.49 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of shelter, 2.70 ft above land-surface datum, May 1, 1988, to present.

PERIOD OF RECORD.--May 1983 to current year.

GAGE.--Monthly measurements by USGS; continuous recordings with a data logger.

REMARKS.--Well number 310D, at crude-oil spill research site near Bemidji. Owner: U.S. Geological Survey

EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 27.59 ft. below land-surface datum Jun. 21, 2001; lowest observed, 30.83 ft. below land-surface datum, Mar. 13, 2007.

EXTREMES FOR CURRENT YEAR.--Highest water level, 30.188 ft below land surface datum, July 2, 3; lowest water level, 30.833 ft below land surface datum, Mar. 13.

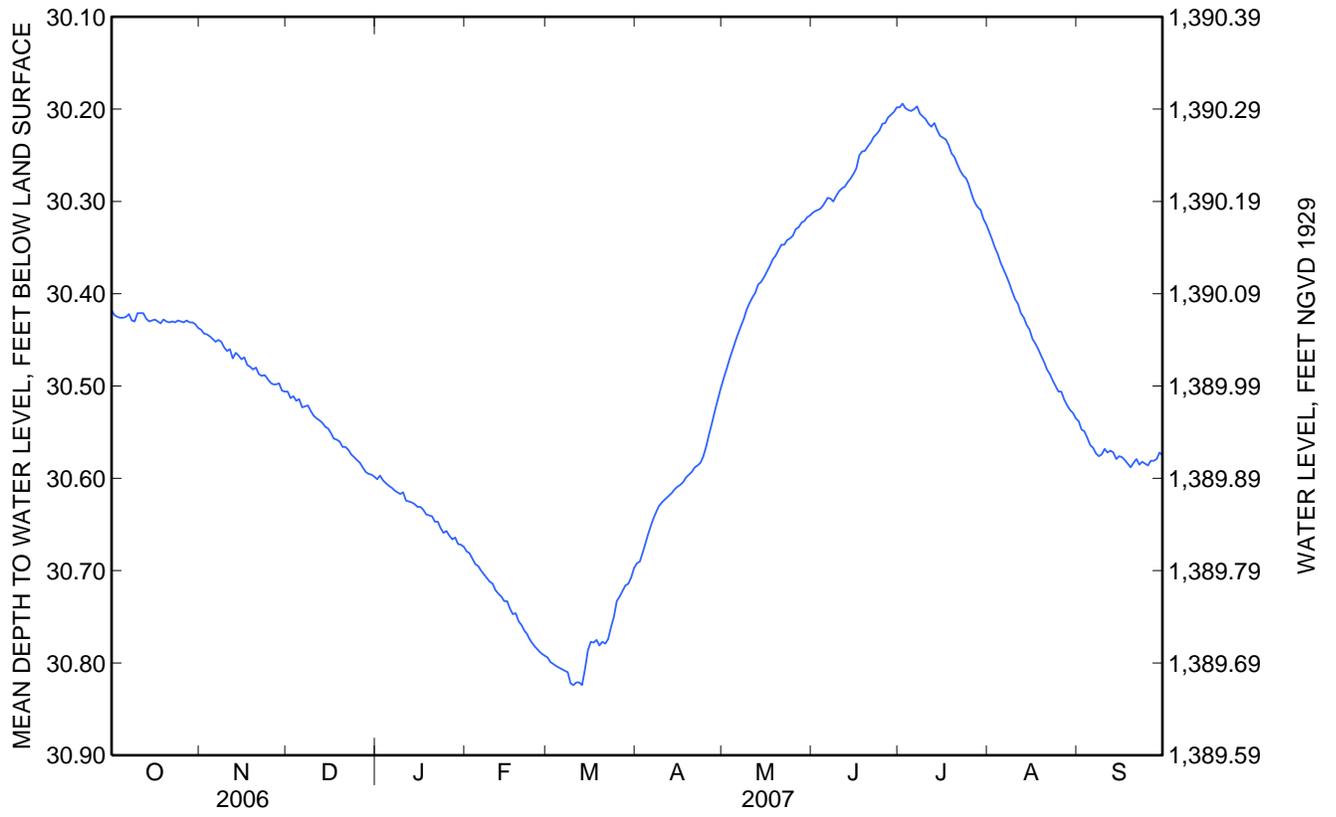
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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	30.418	30.439	30.506	30.601	30.679	30.794	30.692	30.492	30.312	30.198	30.333	30.538
2	30.423	30.443	30.513	30.597	30.681	30.799	30.690	30.482	30.310	30.194	30.341	30.547
3	30.425	30.444	30.511	30.602	30.687	30.801	30.681	30.472	30.309	30.199	30.350	30.549
4	30.426	30.446	30.516	30.605	30.693	30.803	30.669	30.461	30.306	30.201	30.357	30.556
5	30.426	30.449	30.514	30.608	30.695	30.805	30.659	30.453	30.302	30.202	30.367	30.564
6	30.425	30.452	30.523	30.610	30.700	30.807	30.650	30.443	30.296	30.200	30.374	30.567
7	30.422	30.450	30.522	30.613	30.704	30.808	30.641	30.435	30.297	30.197	30.381	30.573
8	30.429	30.452	30.521	30.615	30.708	30.810	30.634	30.427	30.300	30.205	30.389	30.576
9	30.430	30.458	30.527	30.617	30.712	30.822	30.628	30.417	30.294	30.208	30.398	30.574
10	30.421	30.462	30.532	30.615	30.714	30.824	30.625	30.410	30.289	30.211	30.406	30.568
11	30.421	30.460	30.535	30.624	30.721	30.821	30.622	30.404	30.286	30.216	30.411	30.572
12	30.421	30.470	30.537	30.625	30.725	30.821	30.619	30.399	30.284	30.219	30.421	30.570
13	30.427	30.464	30.540	30.626	30.728	30.824	30.616	30.390	30.279	30.215	30.426	30.572
14	30.430	30.467	30.544	30.628	30.733	30.806	30.612	30.387	30.275	30.223	30.434	30.579
15	30.429	30.471	30.546	30.631	30.733	30.786	30.609	30.382	30.270	30.229	30.439	30.576
16	30.428	30.469	30.551	30.631	30.741	30.777	30.607	30.376	30.264	30.231	30.449	30.577
17	30.430	30.477	30.557	30.634	30.747	30.778	30.604	30.370	30.250	30.233	30.454	30.580
18	30.432	30.479	30.558	30.639	30.746	30.775	30.599	30.363	30.246	30.239	30.460	30.584
19	30.428	30.482	30.560	30.640	30.755	30.781	30.596	30.359	30.245	30.248	30.467	30.588
20	30.430	30.480	30.566	30.641	30.759	30.777	30.593	30.353	30.240	30.252	30.474	30.583
21	30.431	30.487	30.566	30.647	30.765	30.779	30.588	30.347	30.236	30.260	30.482	30.579
22	30.430	30.489	30.569	30.647	30.769	30.774	30.586	30.347	30.230	30.267	30.487	30.585
23	30.431	30.488	30.574	30.654	30.775	30.761	30.583	30.342	30.227	30.272	30.494	30.582
24	30.429	30.492	30.577	30.659	30.780	30.750	30.576	30.340	30.223	30.275	30.500	30.584
25	30.430	30.496	30.580	30.657	30.783	30.733	30.565	30.337	30.216	30.283	30.506	30.586
26	30.431	30.498	30.583	30.662	30.787	30.728	30.552	30.330	30.215	30.292	30.506	30.581
27	30.429	30.498	30.588	30.666	30.790	30.722	30.540	30.328	30.209	30.301	30.515	30.581
28	30.431	30.497	30.593	30.664	30.792	30.716	30.526	30.323	30.206	30.306	30.521	30.579
29	30.431	30.505	30.595	30.671	---	30.714	30.515	30.321	30.203	30.309	30.526	30.572
30	30.433	30.506	30.596	30.672	---	30.707	30.502	30.317	30.198	30.319	30.529	30.575
31	30.437	---	30.598	30.674	---	30.697	---	30.315	---	30.325	30.535	---
<b>Mean</b>	30.428	30.472	30.552	30.635	30.736	30.777	30.606	30.385	30.261	30.243	30.443	30.573
<b>Max</b>	30.437	30.506	30.598	30.674	30.792	30.824	30.692	30.492	30.312	30.325	30.535	30.588
<b>Min</b>	30.418	30.439	30.506	30.597	30.679	30.697	30.502	30.315	30.198	30.194	30.333	30.538

<b>Water Year 2007</b>	
<b>Mean</b>	30.508
<b>High</b>	30.194
<b>Low</b>	30.824

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## WATER-QUALITY RECORDS

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 6.3°C, Mar. 21, 23, 28, 31; minimum, 5.5°C, on many days.

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	6.1	6.0	5.9	5.8	5.7	5.6
2	---	---	---	---	---	---	6.1	6.0	5.9	5.8	5.7	5.6
3	---	---	---	---	---	---	6.1	6.0	5.9	5.8	5.6	5.6
4	---	---	---	---	---	---	6.1	6.0	5.9	5.8	5.7	5.6
5	---	---	---	---	---	---	6.1	6.0	5.9	5.8	5.6	5.6
6	---	---	---	---	---	---	6.1	6.0	5.9	5.8	5.6	5.6
7	---	---	---	---	---	---	6.1	6.0	5.9	5.8	5.6	5.6
8	---	---	---	---	---	---	6.1	6.0	5.9	5.8	5.6	5.6
9	---	---	---	---	---	---	6.1	6.0	5.8	5.7	5.6	5.7
10	---	---	---	---	---	---	6.1	6.0	5.8	5.7	5.6	5.6
11	---	---	---	---	---	---	6.1	6.0	5.9	5.7	5.6	5.6
12	---	---	---	---	---	---	6.1	6.0	5.9	5.7	5.6	5.6
13	---	---	---	---	---	---	6.1	6.0	5.9	5.7	5.6	5.6
14	---	---	---	---	---	---	6.1	6.0	5.8	5.7	5.6	5.6
15	---	---	---	---	---	---	6.1	6.0	5.8	5.7	5.6	5.6
16	---	---	---	---	---	---	6.1	6.0	5.8	5.7	5.6	5.7
17	---	---	---	---	---	---	6.1	6.0	5.8	5.7	5.6	5.7
18	---	---	---	---	---	---	6.1	6.0	5.8	5.7	5.7	5.6
19	---	---	---	---	---	---	6.1	6.0	5.8	5.7	5.6	5.6
20	---	---	---	---	---	---	6.1	6.0	5.8	5.7	5.6	5.6
21	---	---	---	---	---	6.2	6.1	6.0	5.8	5.7	5.6	5.7
22	---	---	---	---	---	6.2	6.1	5.9	5.8	5.7	5.6	5.7
23	---	---	---	---	---	6.2	6.1	5.9	5.8	5.7	5.6	5.7
24	---	---	---	---	---	6.2	6.0	6.0	5.8	5.7	5.6	5.7
25	---	---	---	---	---	6.1	6.1	5.9	5.8	5.7	5.6	5.7
26	---	---	---	---	---	6.2	6.0	5.9	5.8	5.7	5.6	5.7
27	---	---	---	---	---	6.1	6.1	5.9	5.8	5.7	5.6	5.7
28	---	---	---	---	---	6.2	6.0	5.9	5.8	5.7	5.6	5.7
29	---	---	---	---	---	6.2	6.0	5.9	5.8	5.7	5.6	5.7
30	---	---	---	---	---	6.1	6.0	5.9	5.8	5.7	5.6	5.7
31	---	---	---	---	---	6.2	---	5.9	---	5.7	5.6	---
<b>Mean</b>	---	---	---	---	---	---	6.1	6.0	5.8	5.7	5.6	5.6
<b>Max</b>	---	---	---	---	---	---	6.1	6.0	5.9	5.8	5.7	5.7
<b>Min</b>	---	---	---	---	---	---	6.0	5.9	5.8	5.7	5.6	5.6

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