Water-Data Report 2012

421653088370902 Local number MARN-10-03

Sand and gravel aquifers (glaciated regions)
Quaternary System

McHenry County, IL

LOCATION.--Lat 42°16'52", long 88°37'09" referenced to North American Datum of 1983, in SE ¼ NE ¼ NW ¼ sec.23, T.44 N., R.5 E., McHenry County, IL, Hydrologic Unit 07090006, 28 feet northwest of groundwater well MARN-10-04 (421653088370903), 49 feet southwest of River Road, 300 feet west of intersection of River Road and Elizabeth Street, 0.5 miles west of Route 23, 0.3 miles east of Tributary to Kishwaukee River, 1.0 mile north of Kishwaukee River, and 2.3 miles northwest of Marengo. Owner: Illinois State Geological Survey.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 160 ft. Upper casing diameter 2 in; top of first opening 155 ft, bottom of last opening 160 ft. Well-casing includes 2-inch schedule 40 PVC pipe, 5.5 in. diameter borehole sealed with benseal grout, observation well.

DATUM.--Land-surface datum is 828 ft above North American Vertical Datum of 1988. Measuring point: File mark on top of PVC well casing, 3.08 ft above land-surface datum, May 2, 2011 to present.

PERIOD OF RECORD.--
GROUND-WATER LEVELS: May 2011 to current year. Prior to May 2011, observation well readings available from the Illinois State Geological Survey.

GAGE.--Water level recorder and satellite telemeter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.37 ft below land-surface datum, May 5, 2012; lowest, 31.80 ft below land-surface datum, September 30, 2012.

EXTREMES FOR CURRENT YEAR.--Highest water level, 26.37 ft below land-surface datum, May 5; lowest, 31.80 ft below land-surface datum, September 30.

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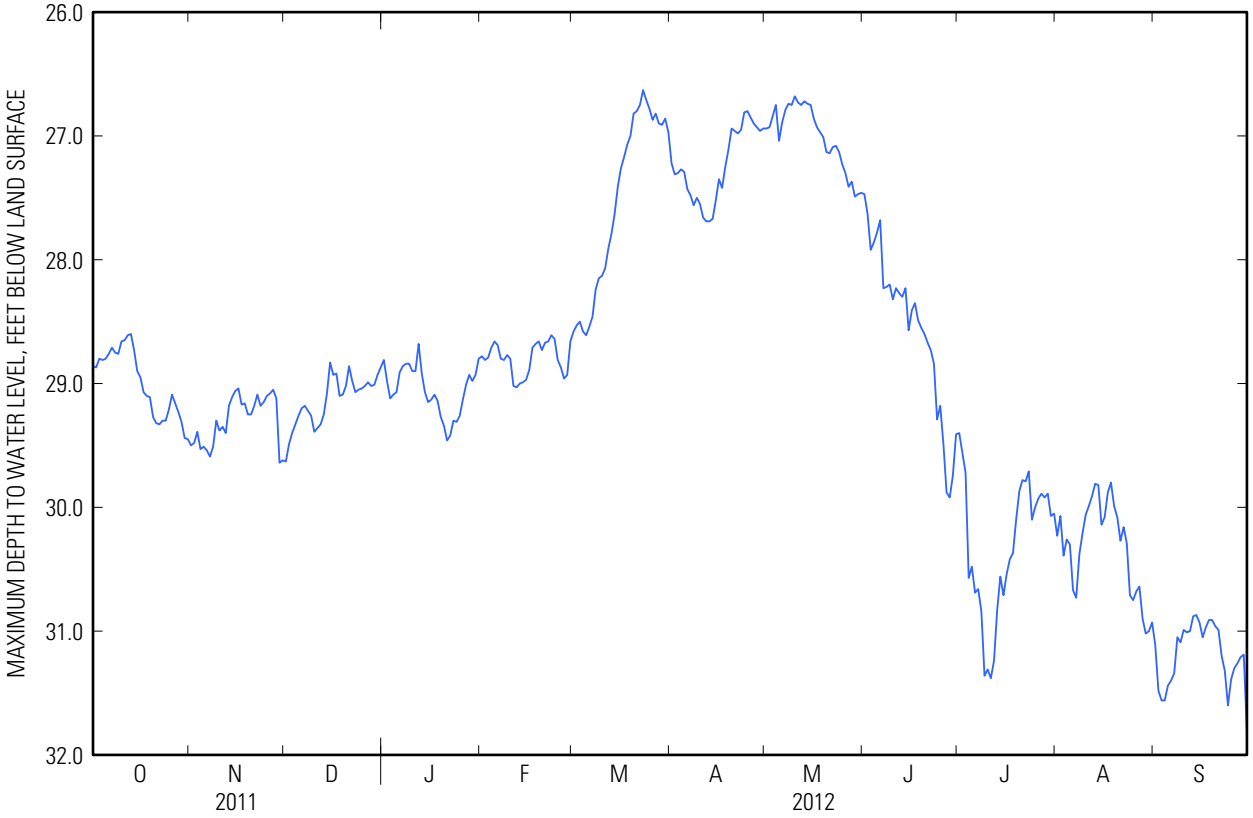
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MAXIMUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	28.86	29.50	29.63	28.81	28.78	28.58	27.22	26.94	27.47	29.40	30.23	31.11
2	28.87	29.48	29.49	28.98	28.81	28.53	27.31	26.93	27.63	29.56	30.07	31.48
3	28.80	29.39	29.40	29.12	28.79	28.50	27.30	26.84	27.92	29.72	30.39	31.56
4	28.81	29.53	29.33	29.09	28.71	28.58	27.27	26.75	27.86	30.57	30.26	31.56
5	28.80	29.51	29.26	29.07	28.66	28.61	27.29	27.04	27.78	30.48	30.30	31.44
6	28.76	29.54	29.20	28.91	28.69	28.54	27.43	26.89	27.68	30.69	30.67	31.40
7	28.71	29.59	29.18	28.86	28.80	28.46	27.48	26.79	28.23	30.66	30.73	31.34
8	28.75	29.51	29.22	28.84	28.81	28.24	27.56	26.74	28.22	30.84	30.38	31.05
9	28.76	29.30	29.26	28.84	28.77	28.15	27.50	26.75	28.20	31.36	30.21	31.09
10	28.66	29.38	29.39	28.90	28.80	28.13	27.55	26.68	28.32	31.31	30.06	30.99
11	28.65	29.35	29.36	28.90	29.02	28.07	27.66	26.73	28.23	31.38	29.99	31.01
12	28.61	29.40	29.33	28.68	29.03	27.91	27.69	26.75	28.27	31.24	29.91	31.00
13	28.60	29.18	29.25	28.92	29.00	27.79	27.69	26.72	28.30	30.83	29.81	30.88
14	28.73	29.11	29.08	29.07	28.99	27.63	27.67	26.74	28.23	30.56	29.82	30.87
15	28.90	29.06	28.83	29.15	28.97	27.41	27.52	26.75	28.57	30.71	30.14	30.93
16	28.95	29.04	28.93	29.13	28.89	27.26	27.35	26.86	28.41	30.54	30.08	31.05
17	29.07	29.17	28.92	29.09	28.71	27.17	27.42	26.93	28.35	30.42	29.88	30.97
18	29.10	29.16	29.10	29.14	28.68	27.07	27.25	26.97	28.49	30.37	29.80	30.91
19	29.11	29.25	29.09	29.27	28.66	27.00	27.11	27.01	28.55	30.10	29.99	30.91
20	29.27	29.25	29.02	29.34	28.73	26.82	26.94	27.13	28.60	29.87	30.08	30.96
21	29.32	29.18	28.86	29.46	28.67	26.80	26.96	27.14	28.67	29.78	30.27	30.99
22	29.33	29.09	28.98	29.42	28.66	26.75	26.98	27.09	28.73	29.79	30.16	31.20
23	29.30	29.18	29.07	29.30	28.61	26.63	26.95	27.08	28.84	29.71	30.29	31.32
24	29.30	29.15	29.05	29.31	28.64	26.71	26.81	27.13	29.29	30.10	30.71	31.60
25	29.21	29.10	29.04	29.26	28.81	26.78	26.80	27.23	29.18	30.00	30.75	31.39
26	29.09	29.08	29.02	29.13	28.87	26.87	26.85	27.30	29.49	29.93	30.68	31.30
27	29.16	29.05	28.99	29.01	28.96	26.82	26.90	27.41	29.88	29.89	30.64	31.26
28	29.23	29.12	29.02	28.93	28.93	26.90	26.93	27.37	29.92	29.92	30.90	31.21
29	29.31	29.64	29.01	28.98	28.66	26.91	26.96	27.49	29.74	29.89	31.02	31.19
30	29.44	29.62	28.93	28.93	---	26.86	26.94	27.47	29.41	30.07	31.00	31.81
31	29.45	---	28.87	28.80	---	26.97	---	27.46	---	30.05	30.93	---
Mean	29.00	29.30	29.13	29.05	28.80	27.53	27.24	27.00	28.55	30.31	30.33	31.19
Max	29.45	29.64	29.63	29.46	29.03	28.61	27.69	27.49	29.92	31.38	31.02	31.81
Min	28.60	29.04	28.83	28.68	28.61	26.63	26.80	26.68	27.47	29.40	29.80	30.87

	Water Year 2012
Mean	28.95
High	26.63
Low	31.81

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