

Water-Data Report 2013

**390840084302400 Local number H-227**

Undefined Aquifer  
Till

Hamilton County, OH

LOCATION.--Lat 39°08'40.1", long 84°30'23.6" referenced to North American Datum of 1983, Hamilton County, OH, Hydrologic Unit is unknown.

**GROUNDWATER RECORDS**

WELL CHARACTERISTICS.--Depth 22.08 ft. Upper casing diameter 4.0 in; top of first opening 15.46 ft, bottom of last opening 20.46 ft.

DATUM.--Land-surface datum is 697.26 ft above National Geodetic Vertical Datum of 1929. Measuring point: Temporary extension to casing top. Placed on well during interval of construction at site., 4.18 ft above land-surface datum, April 5, 2012, to Nov. 20, 2012; Casing cut close to ground level to install flush mount., 0.2 ft below land-surface datum, Nov. 21, 2012, to Mar. 7, 2014. Since this well was established the area around the well has been extensively altered by construction activity. When the well was established September 4, 2009, the Land Surface Datum was 694.27 feet. In November 2012 construction activity had raised the Land Surface Datum to its present level.

PERIOD OF RECORD.--Periodic water-level measurements from September 8, 2009 to current year. Continuous water-level data from October 8, 2009 to January 30, 2011. No continuous data from January 31, 2011 to April 13, 2011 (recorder failure). Continuous data April 14, 2011 to December 29, 2011. Continuous data is again recorded from April until October 2012, however Land Surface datum control is very poor due to construction and damage to the well casing. Surface casing heavily damaged November 2012 and unvented transducer falls to bottom of well. No Land Surface datum control October 2012 to July 2013. No recorder in place March through early July 2013. Continuous data recording resumes July 25, 2013.

GAGE.--Unvented data logger and pressure transducer and separate barometer, 60-minute record interval.

COOPERATION.--Cincinnati Zoo and the Metropolitan Sewer District of Greater Cincinnati.

REMARKS.--This well is part of a study of best management practices for low impact development. Starting in January 2011, the water level record for this site may be influenced by direct runoff from a nearby construction site.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, <19.34 ft. below land-surface datum on many days in January, February and November 2010 (water level below base of well screen); minimum daily low, 9.19 ft. below land-surface datum, April 24, 2011.

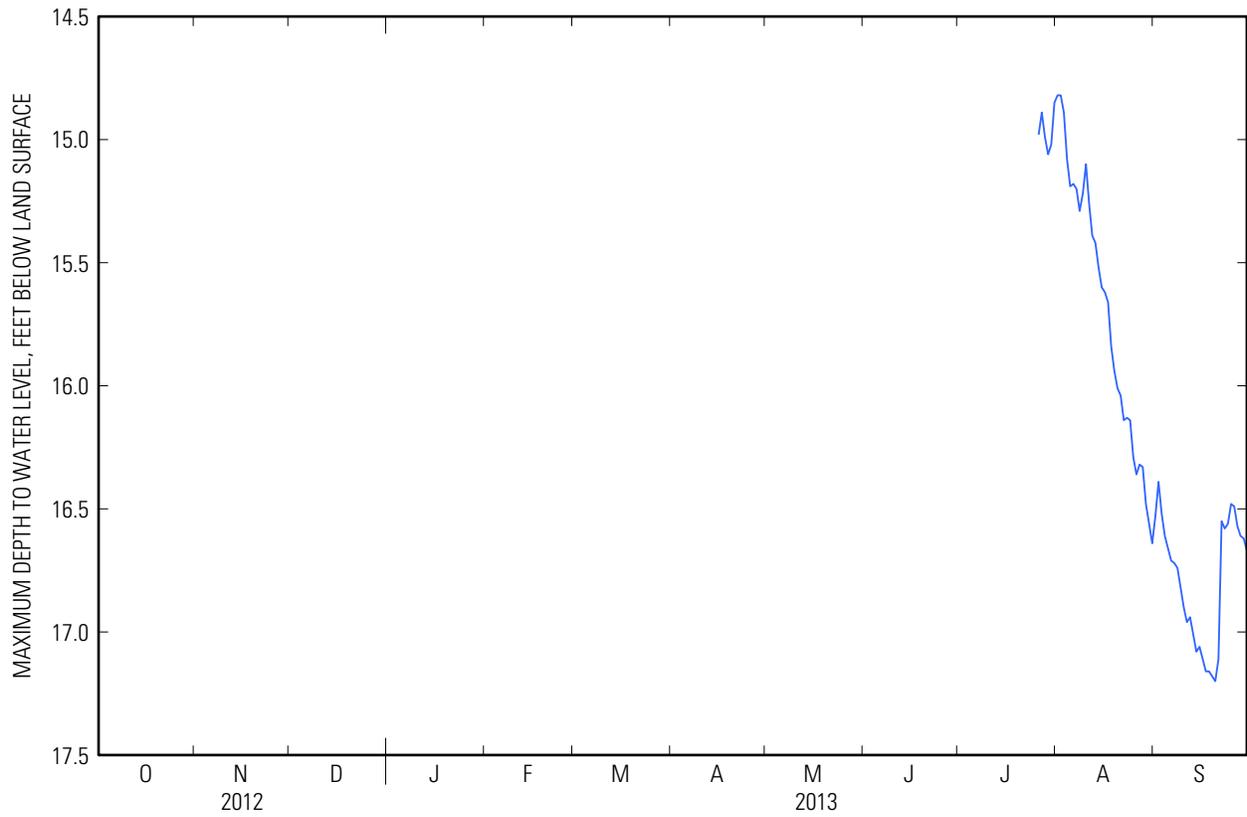
EXTREMES FOR CURRENT YEAR.--Maximum daily low, 17.20 ft below land surface datum September 20, 2013; minimum daily low, 14.82 ft. on August 1-2, 2013 (hourly recorded measurements), 14.43 ft below land-surface datum, July 9, 2013 (this value is a discrete WL measurement).

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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**  
**DAILY MAXIMUM VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	---	14.82	16.53
2	---	---	---	---	---	---	---	---	---	---	14.82	16.39
3	---	---	---	---	---	---	---	---	---	---	14.89	16.52
4	---	---	---	---	---	---	---	---	---	---	15.08	16.61
5	---	---	---	---	---	---	---	---	---	---	15.19	16.66
6	---	---	---	---	---	---	---	---	---	---	15.18	16.71
7	---	---	---	---	---	---	---	---	---	---	15.20	16.72
8	---	---	---	---	---	---	---	---	---	---	15.29	16.74
9	---	---	---	---	---	---	---	---	---	---	15.22	16.82
10	---	---	---	---	---	---	---	---	---	---	15.10	16.90
11	---	---	---	---	---	---	---	---	---	---	15.26	16.96
12	---	---	---	---	---	---	---	---	---	---	15.39	16.94
13	---	---	---	---	---	---	---	---	---	---	15.42	17.01
14	---	---	---	---	---	---	---	---	---	---	15.52	17.08
15	---	---	---	---	---	---	---	---	---	---	15.60	17.06
16	---	---	---	---	---	---	---	---	---	---	15.62	17.11
17	---	---	---	---	---	---	---	---	---	---	15.66	17.16
18	---	---	---	---	---	---	---	---	---	---	15.84	17.16
19	---	---	---	---	---	---	---	---	---	---	15.94	17.18
20	---	---	---	---	---	---	---	---	---	---	16.01	17.20
21	---	---	---	---	---	---	---	---	---	---	16.04	17.11
22	---	---	---	---	---	---	---	---	---	---	16.14	16.55
23	---	---	---	---	---	---	---	---	---	---	16.13	16.58
24	---	---	---	---	---	---	---	---	---	---	16.14	16.56
25	---	---	---	---	---	---	---	---	---	---	16.29	16.48
26	---	---	---	---	---	---	---	---	---	14.98	16.36	16.49
27	---	---	---	---	---	---	---	---	---	14.89	16.32	16.57
28	---	---	---	---	---	---	---	---	---	14.99	16.33	16.61
29	---	---	---	---	---	---	---	---	---	15.06	16.48	16.62
30	---	---	---	---	---	---	---	---	---	15.02	16.56	16.67
31	---	---	---	---	---	---	---	---	---	14.85	16.64	---
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	15.69	16.79
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	16.64	17.20
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	14.82	16.39

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**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

[Measurement method: V, calibrated electric tape--accuracy of instrument has been checked. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Oct 2	15.15	V	--	Aug 14	15.49	V	--
Jul 9	14.43	V	--	21	15.98	V	--
25	14.98	V	--	Sep 19	17.16	V	--