

**MILAN BELTWAY, AUGUSTANA/ROCK ISLAND
WETLAND COMPENSATION SITE**

ISGS #76

FAU 5822

Sequence #67

Rock Island County, near Moline, Illinois

Primary Project Manager: Steven E. Benton

Secondary Project Manager: Kathleen E. Bryant

SITE HISTORY

- February 2008: The ISGS was tasked by IDOT to conduct 5-year monitoring.
- March 2008: A monitoring network was installed on the site.

WETLAND HYDROLOGY CALCULATION FOR 2008

The total area of the site that satisfied wetland hydrology criteria (Environmental Laboratory 1987) for more than 5% of the 2008 growing season was estimated to be 1.48 ha (3.67 ac) out of a total area of 4.13 ha (10.22 ac). This included 0.61 ha (1.52 ac) of area A, 0.11 ha (0.27 ac) of area B, and 0.76 ha (1.87 ac) of area C. None of the wetland mitigation areas satisfied wetland hydrology criteria for more than 12.5% of the growing season. These estimates are based on the following factors:

- According to the MRCC, the median date that the growing season begins at the Quad City International Airport in nearby Moline, Illinois, is April 13 and the season lasts 196 days; 5% of the growing season is 10 days and 12.5% of the growing season is 25 days.
- Total precipitation during the monitoring period was 99% of normal. Precipitation was at or above normal in December 2007, and in February, April, May, June, and July 2008. Total precipitation in the spring (April, May, and June) was 138% of normal.
- In 2008, wetland hydrology in the mitigation areas occurred for more than 5% of the growing season at wells 2S, 3S, 4S, 6S, 7S, and 8S, but wetland hydrology did not occur for more than 12.5% of the growing season. Outside the mitigation areas, wetland hydrology occurred for more than 5% of the growing season at wells 5S, 9S, 10S, and 11S, and for more than 12.5% of the growing season at wells 5S and 9S.
- The highest recorded surface-water elevation was 171.58 m (562.95 ft) at gauge A and 171.59 m (562.99 ft) at gauge B on April 16. Based on surveyed land-surface elevations at the monitoring wells, inundation did not occur for more than 5% of the growing season in any of the mitigation areas.

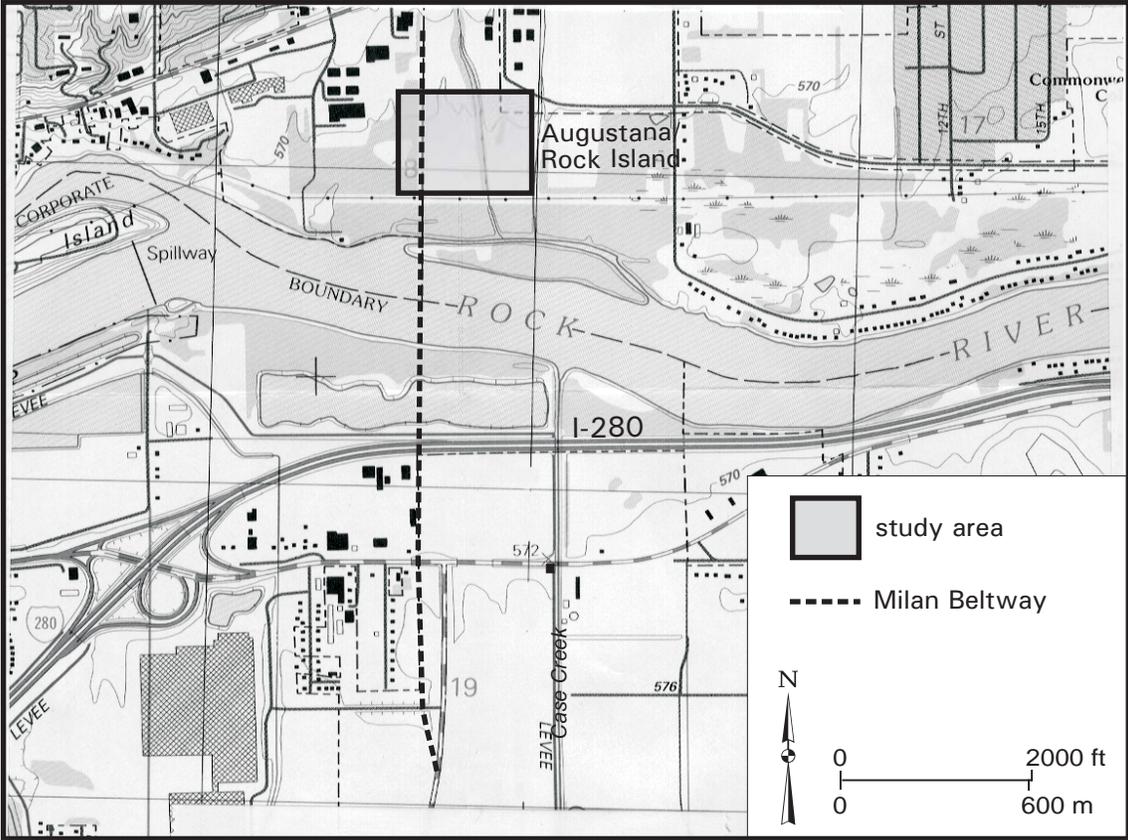
PLANNED FUTURE ACTIVITIES

- Additional monitoring wells will be installed in Fall 2008. Electronic data loggers will also be installed in the drainage ditches/creeks on the site in Fall 2008.

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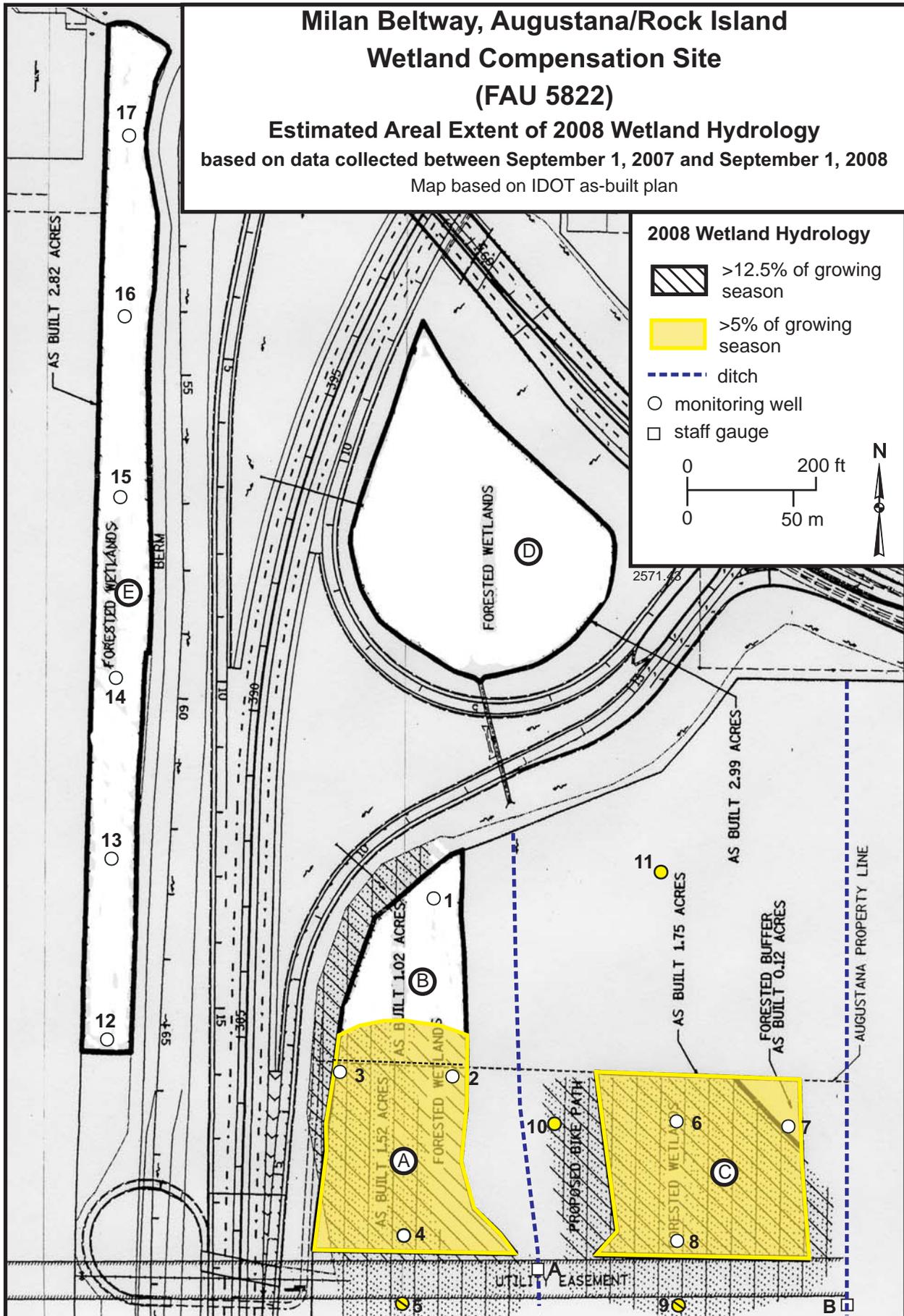
General Study Area and Vicinity

from the USGS Topographic Series, Milan IL-IA 7.5-minute Quadrangle (USGS 1992)
contour interval is 10 feet



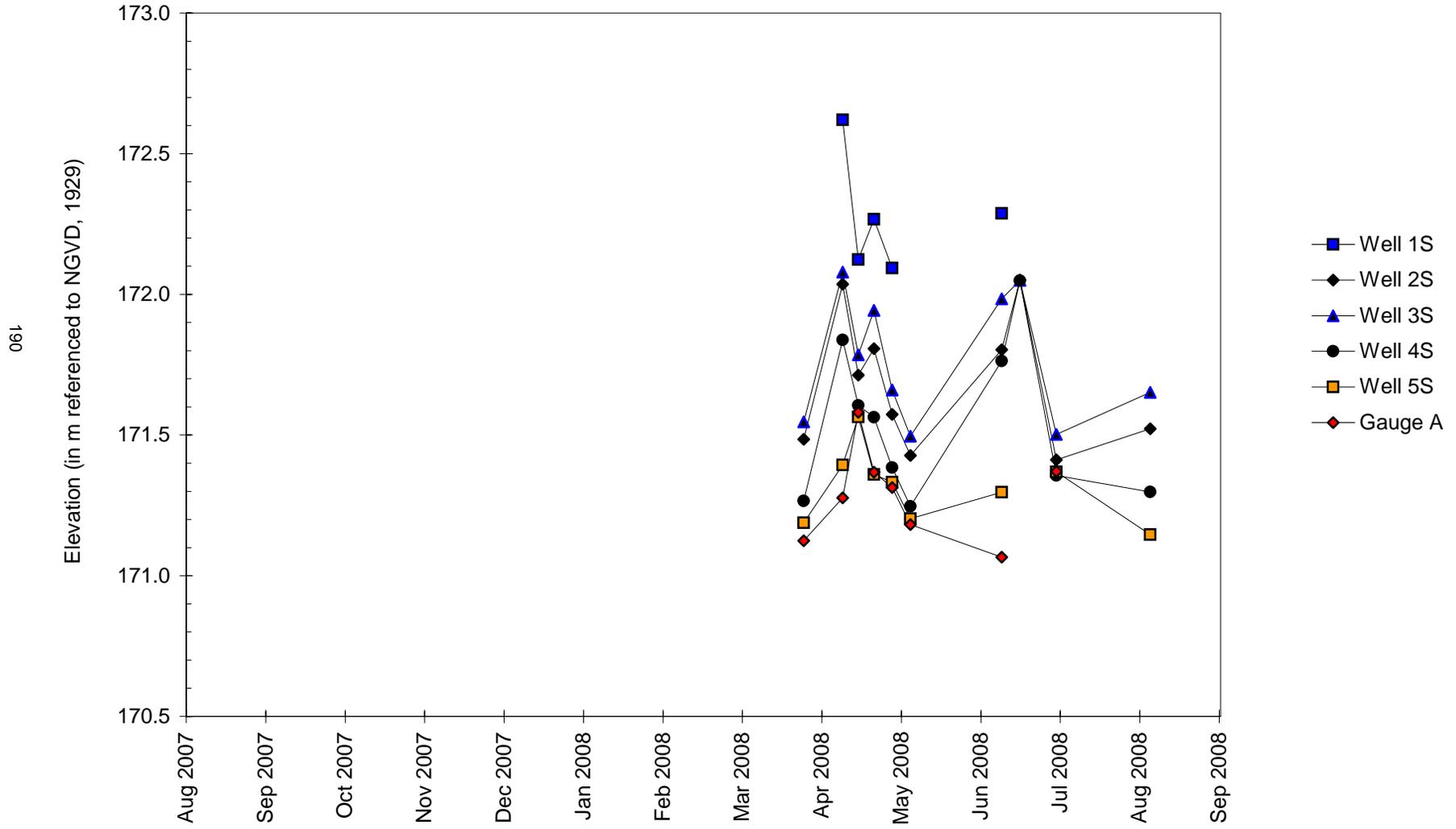
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Estimated Areal Extent of 2008 Wetland Hydrology
based on data collected between September 1, 2007 and September 1, 2008
Map based on IDOT as-built plan



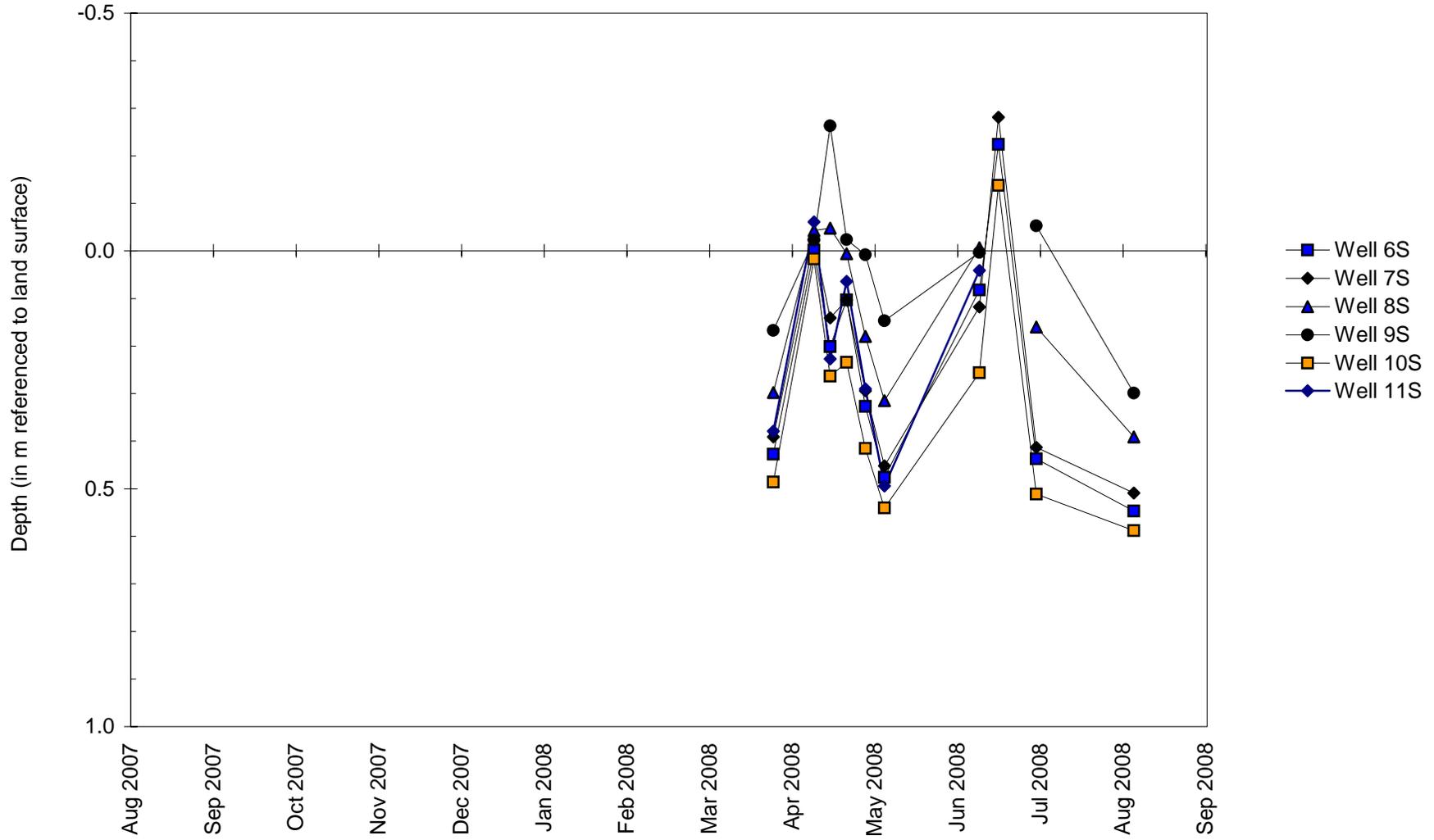
Milan Beltway, Augustana/Rock Island Wetland Compensation Site September 1, 2007 to September 1, 2008

Water-Level Elevations Areas A and B



Milan Beltway, Augustana/Rock Island Wetland Compensation Site
September 1, 2007 to September 1, 2008

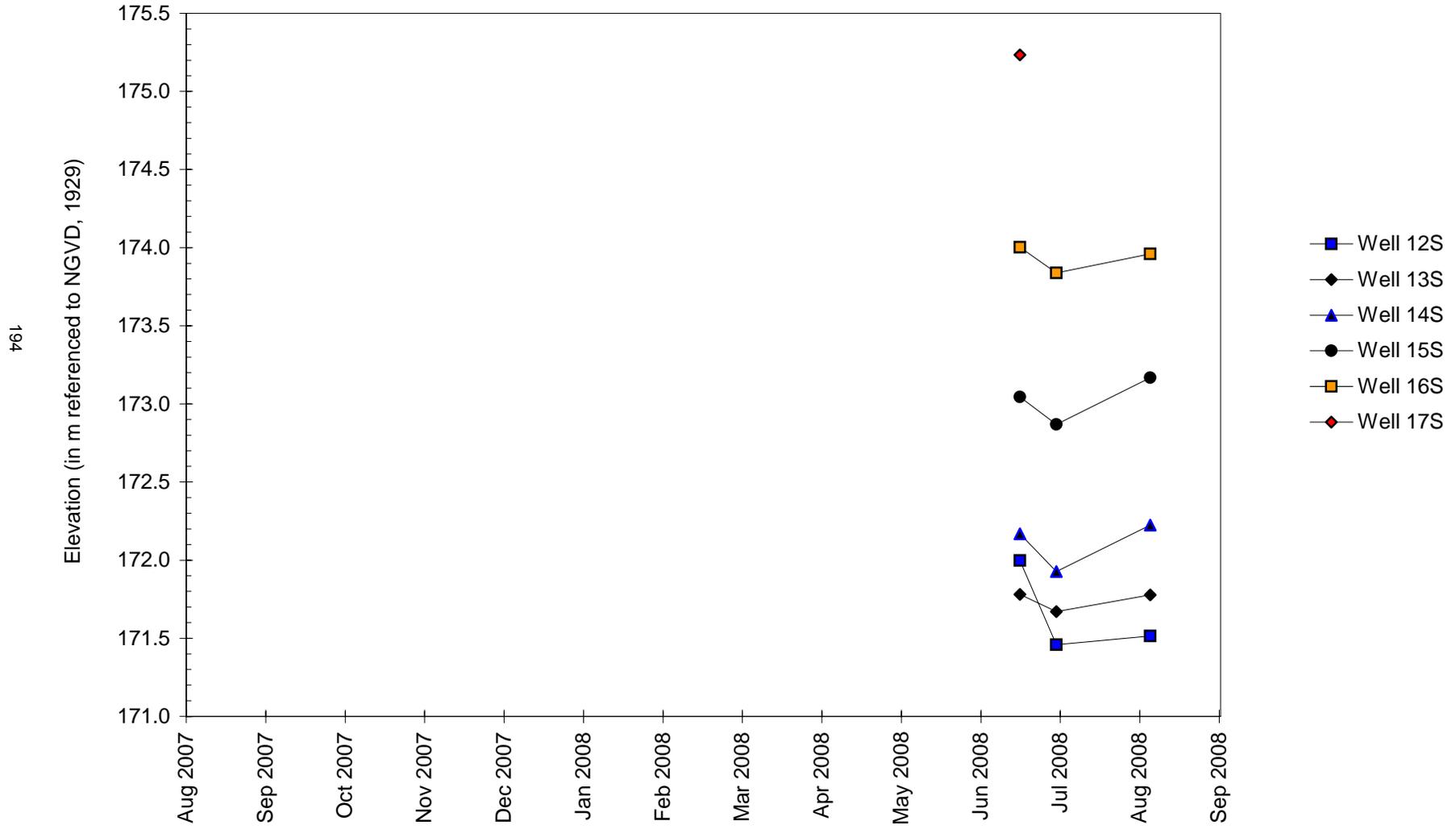
Depth to Water
Area C



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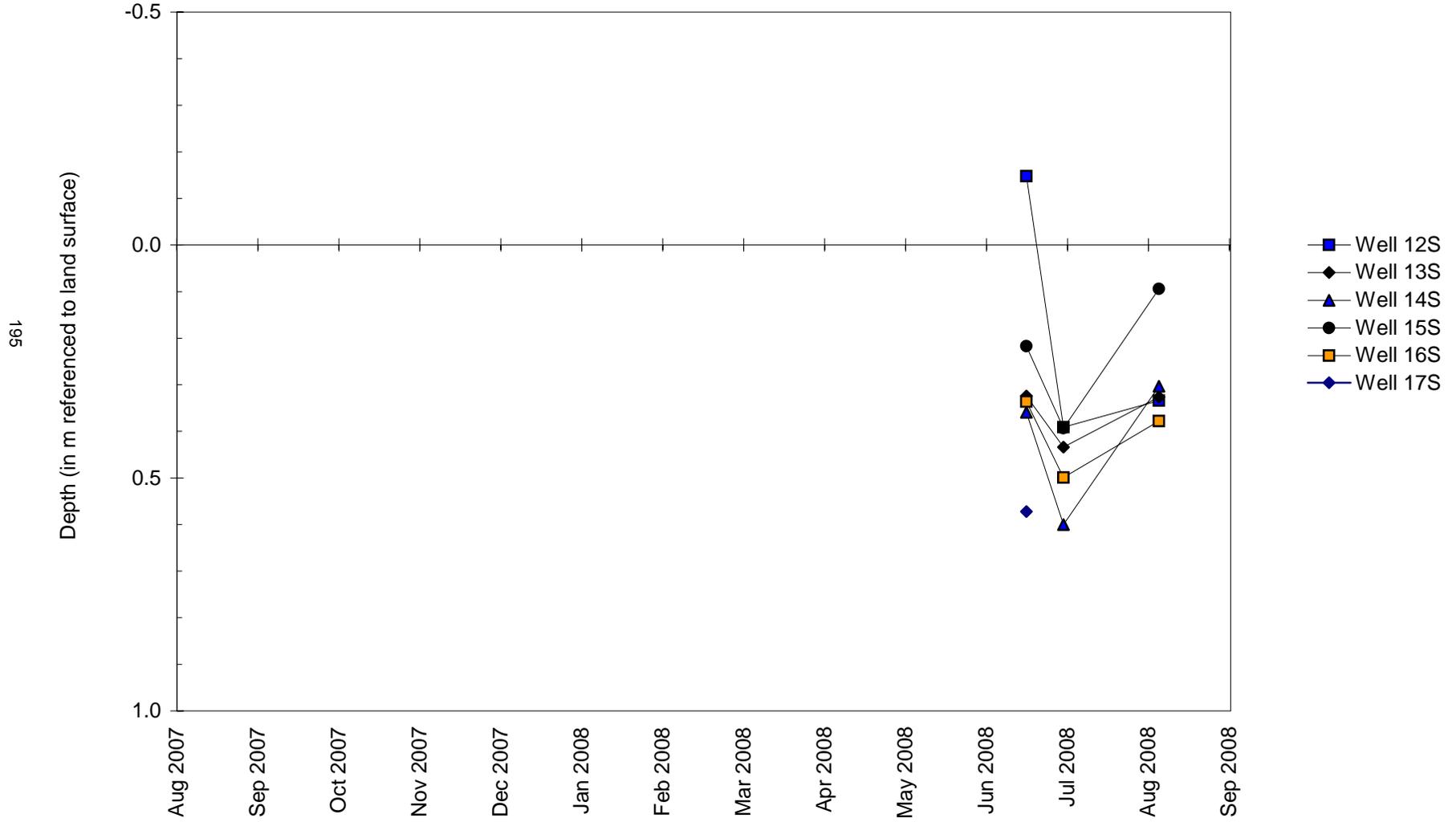
September 1, 2007 to September 1, 2008

Water-Level Elevations Area E



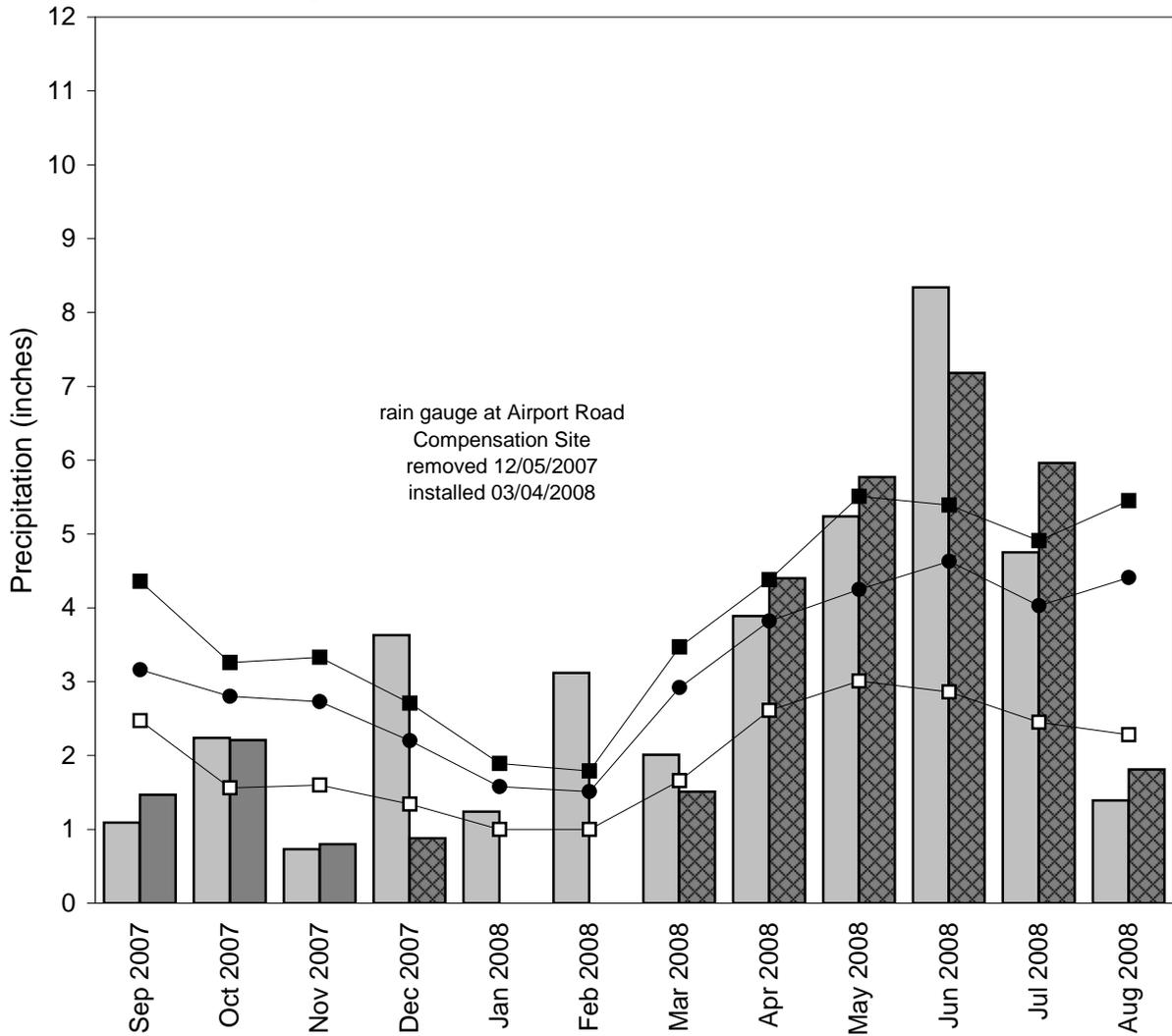
Milan Beltway, Augustana/Rock Island Wetland Compensation Site September 1, 2007 to September 1, 2008

Depth to Water Area E



Milan Beltway, Augustana/Rock Island Wetland Compensation Site September 2007 through August 2008

**Total Monthly Precipitation Recorded On Site and at the
Quad City International Airport Weather Station, Moline, IL**



- monthly precipitation recorded at weather station (Midwestern Regional Climate Center)
- monthly precipitation recorded on site by ISGS
- 1971-2000 monthly 30% above average threshold (National Water and Climate Center)
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- 1971-2000 monthly 30% below average threshold (National Water and Climate Center)
- data incomplete

Graph last updated October 7, 2008