

**FORMER LUEHMANN PROPERTY, NEW RIVER CROSSING
POTENTIAL WETLAND COMPENSATION SITE**

ISGS #51

FAP 999

Madison County, near Stallings, Illinois

Primary Project Manager: Steven E. Benton

Secondary Project Manager: Charles W. Knight

SITE HISTORY

- February 2000: The ISGS was tasked to perform a Level II hydrogeologic assessment of the site.
- May 2003: A Level II hydrogeological characterization report was submitted to IDOT (ISGS Open-File Series 2003–09).
- June 2003: IDOT requested the suspension of ground-water monitoring. The collection of data from surface-water instruments is ongoing.

SUMMARY OF 2009 EVENTS

The total area of the site is 27.5 ha (68 ac). Because ground-water monitoring was suspended at this site, an estimate of the area satisfying the criteria for wetland hydrology was not prepared for this report.

- According to the MRCC, the median date that the growing season begins in nearby Belleville, Illinois, is April 6 and the season lasts 199 days; 5% of the growing season is 10 days and 12.5% of the growing season is 25 days. No starting date for the growing season using methods outlined in the Midwest Regional Supplement (U.S. Army Corps of Engineers 2008) was determined for this site.
- Precipitation at the nearby Edwardsville weather station during the monitoring period was 52.70 inches, which was 138% of normal. Precipitation was at or above normal in September and December 2008, and in February, April, May, and July 2009.
- Measurements in the Cahokia Canal indicate that the water level exceeded 126.8 m (416.0 ft) on 15 occasions during the growing season, September 4 and September 12–21, 2008, and April 10–11, April 19–20, May 8–9, May 16, May 25–June 1, June 8–9, June 15–18, July 2–6, July 12, August 16, August 17, August 20, and September 5, 2009. This is the suggested elevation of an intake culvert described in the Level II Report (ISGS Open-File Series 2003–09).

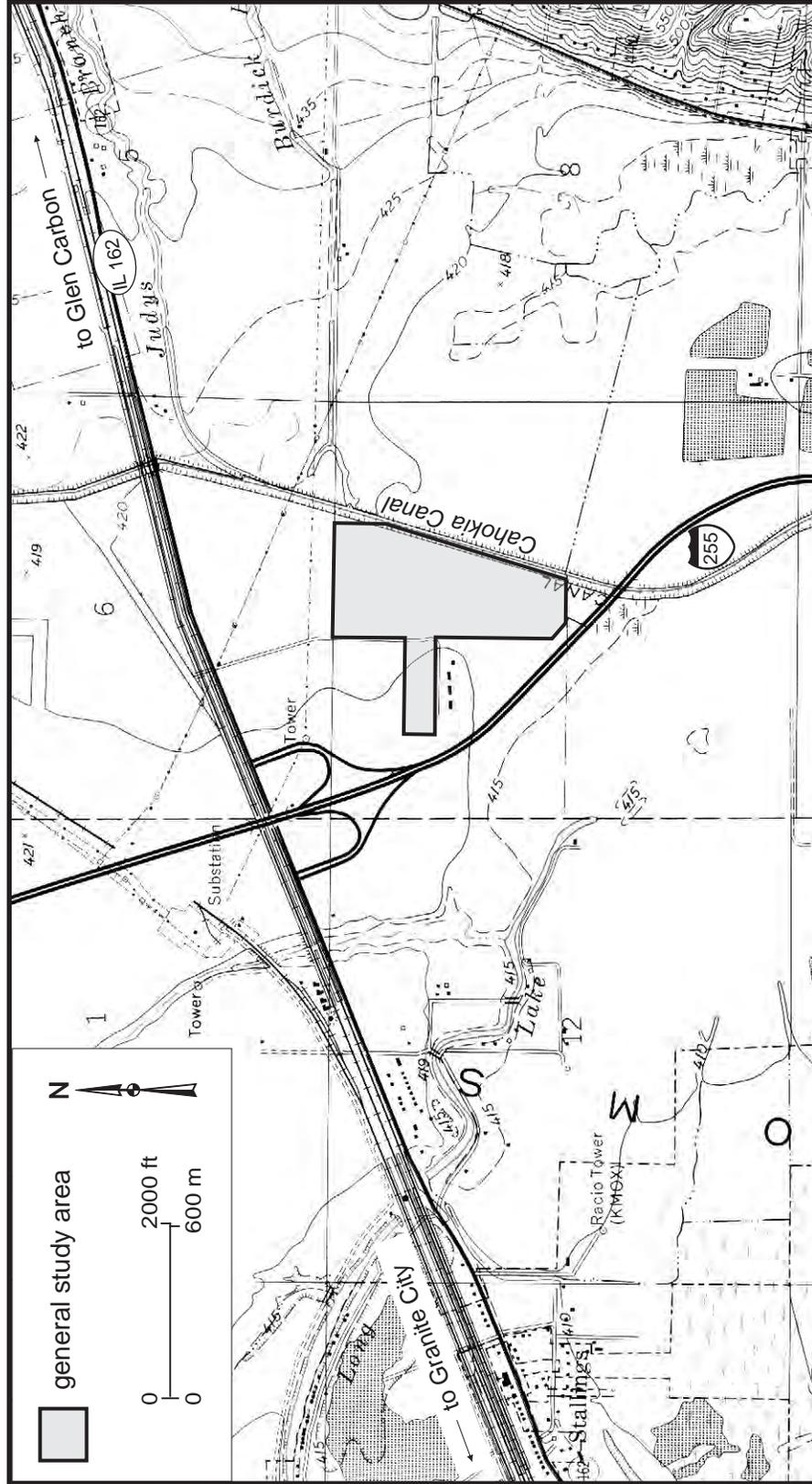
PLANNED FUTURE ACTIVITIES

- Collection of surface-water data will continue at this site until no longer required by IDOT.

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General Study Area and Vicinity

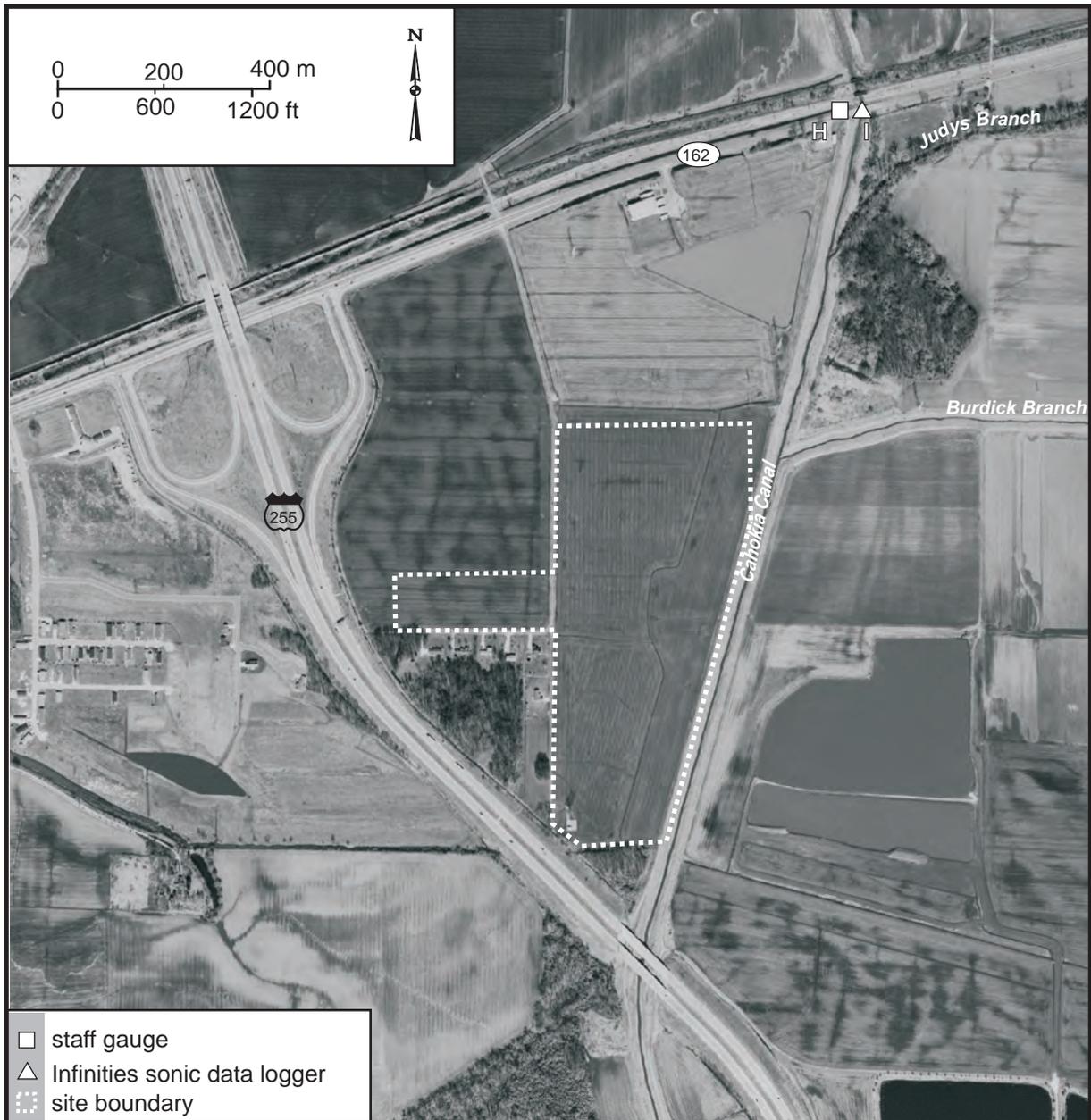
from the USGS Topographic Series, Monks Mound, IL 7.5-minute Quadrangle (USGS 1993)
contour interval is 3 m (10 ft)



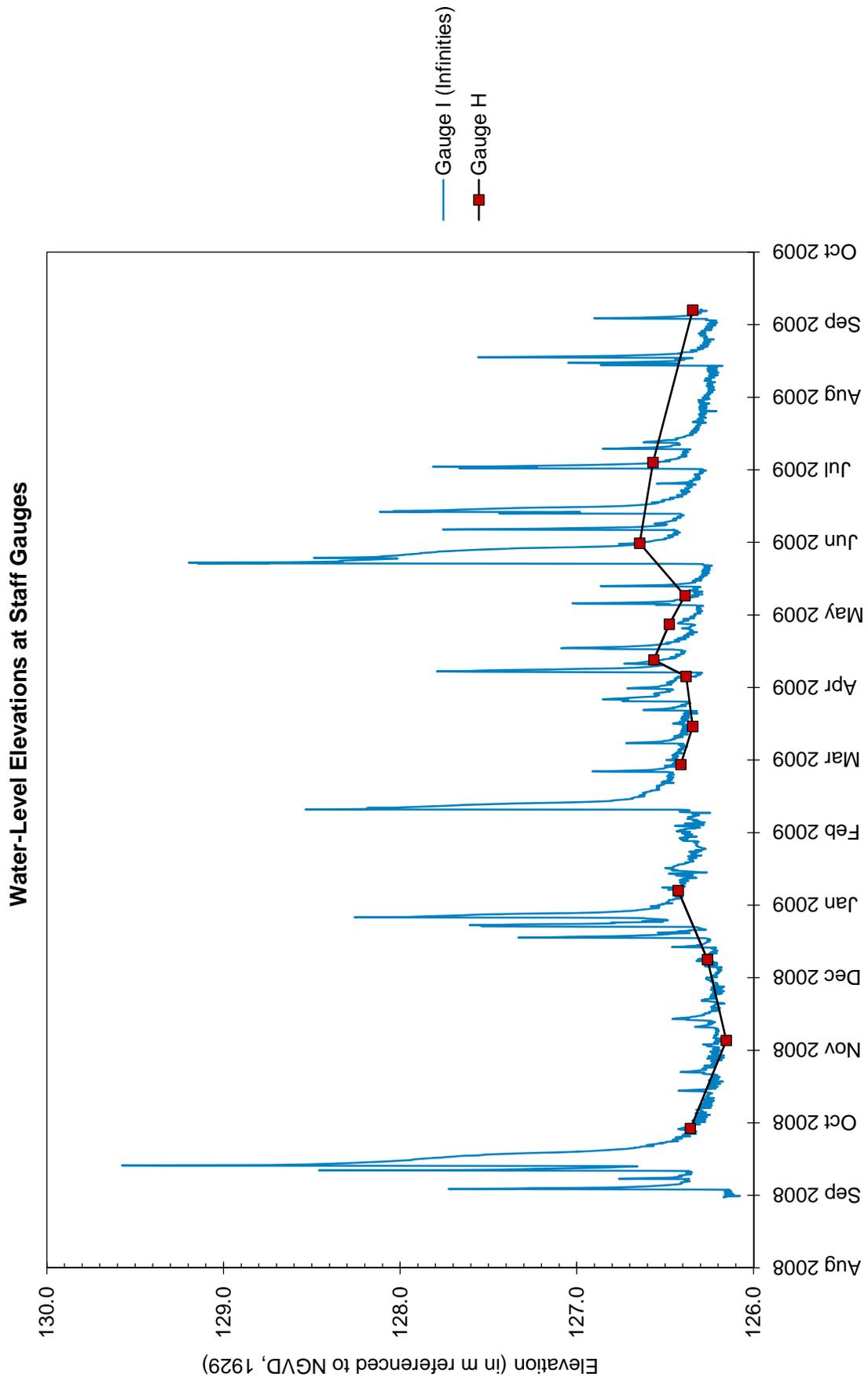
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Locations of ISGS Monitoring Instruments

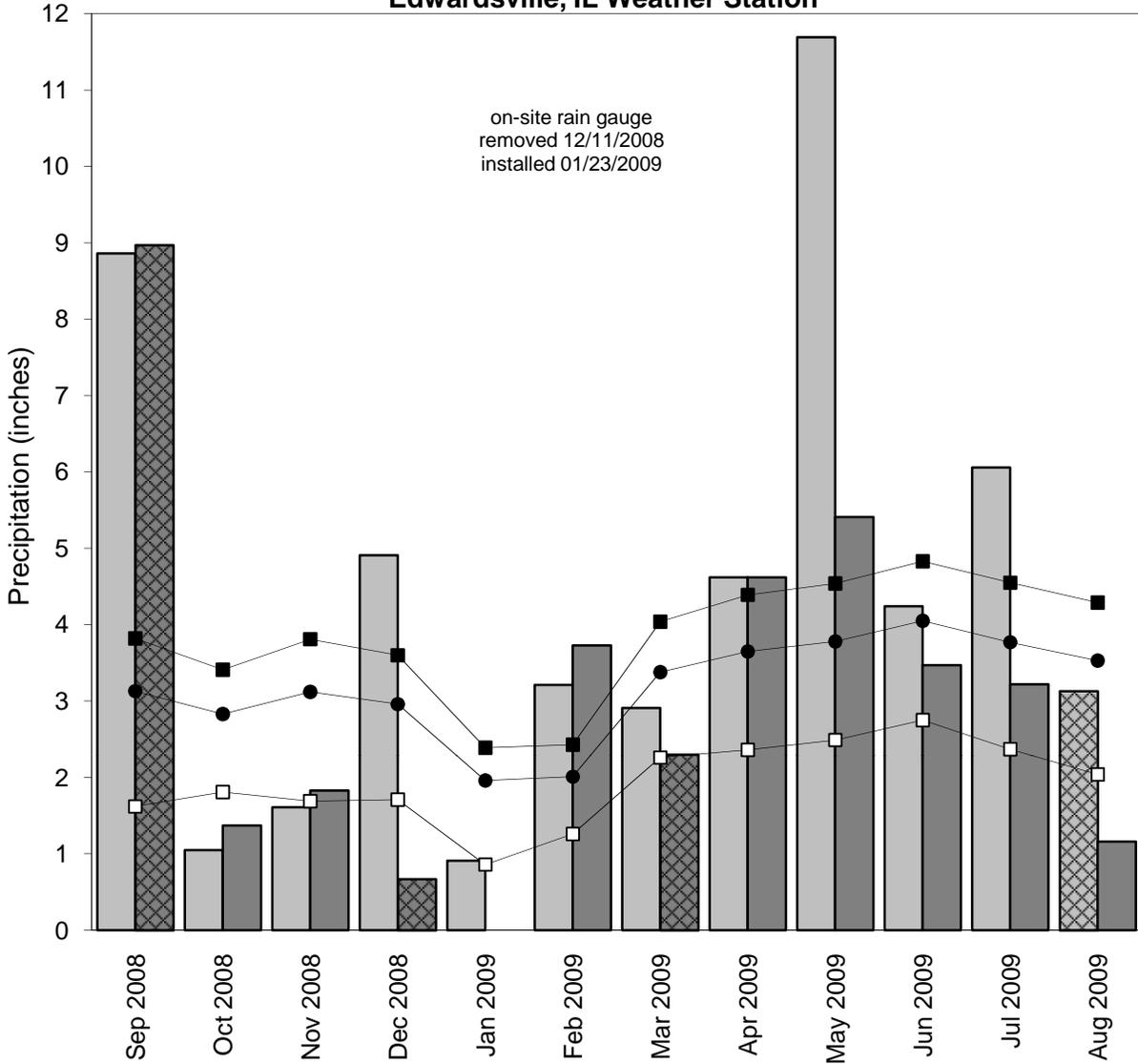
Map based on USGS digital orthophotograph, Monks Mound NE quarter quadrangle
produced from 2005 aerial photography (ISGS 2006)



Former Luehmann Property, New River Crossing Potential Wetland Compensation Site
September 1, 2008 through August 31, 2009



**Former Luehmann Property, New River Crossing
Potential Wetland Compensation Site
September 2008 through August 2009
Total Monthly Precipitation Recorded On Site and at the
Edwardsville, IL Weather Station**



- monthly precipitation recorded at weather station (Midwestern Regional Climate Center)
- monthly precipitation recorded on site by ISGS
- data incomplete
- 1961-1990 monthly 30% above average threshold (National Water and Climate Center)
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- 1961-1990 monthly 30% below average threshold (National Water and Climate Center)

Graph last updated October 15, 2009