



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

ISGS #51

FAP 999

Madison County, near Stallings, Illinois

Primary Project Manager: Bonnie J. R. Sperling

Secondary Project Manager: Keith W. Carr

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 2007 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.
- Precipitation at the nearby Edwardsville weather station during the monitoring period was 92% of normal. Above-normal precipitation was reported during five months; October and December 2006, and January, February and April 2007, while below-normal precipitation was reported through the remainder of the monitoring period.
- Measurements in the Cahokia Canal indicate that the water level exceeded 126.8 m (416 ft) on two occasions during the growing season, April 14 and May 4–5, 2007. This is the suggested elevation of an intake culvert described in the Level II Report (ISGS Open-File Series 2003–09).

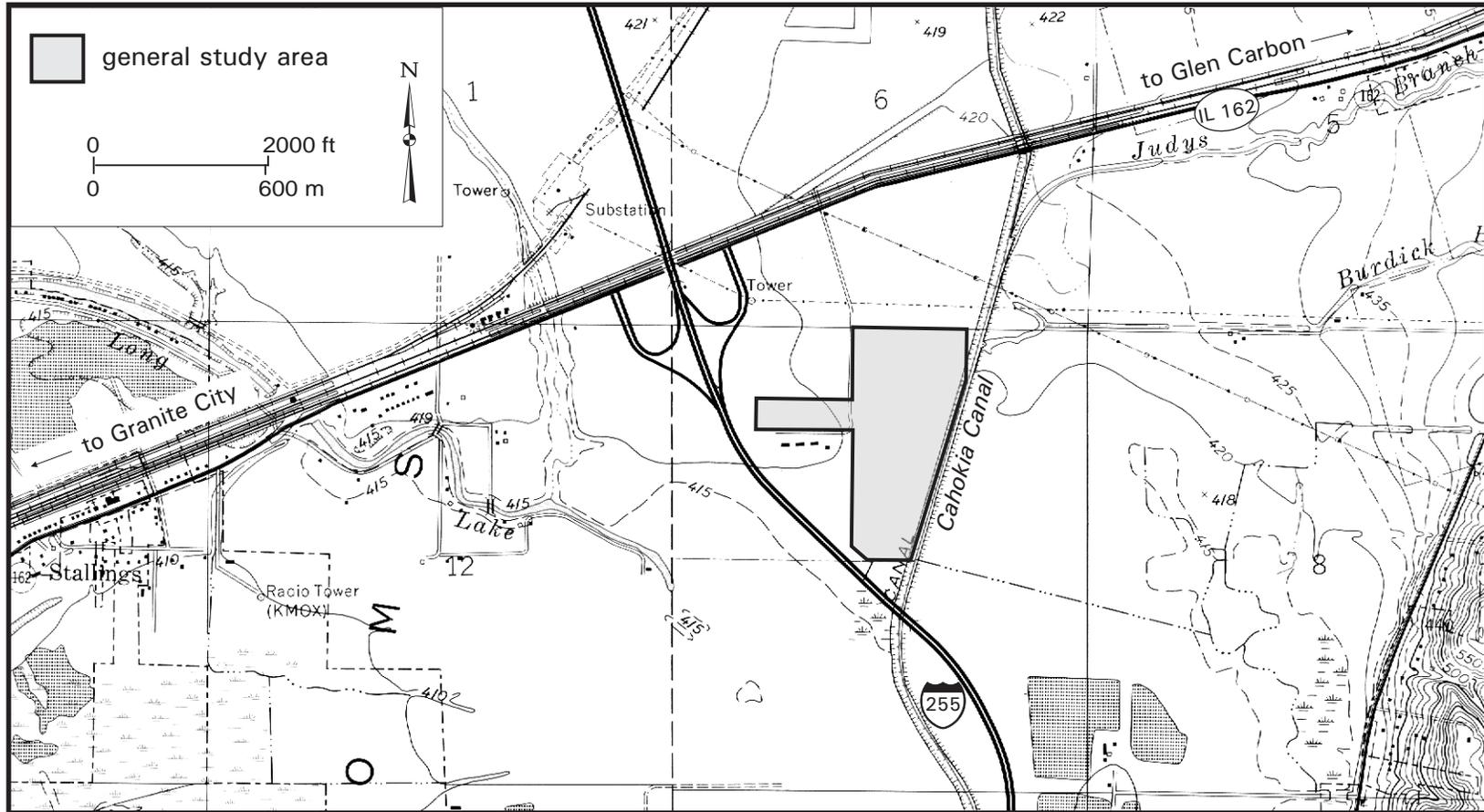
PLANNED FUTURE ACTIVITIES

- 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

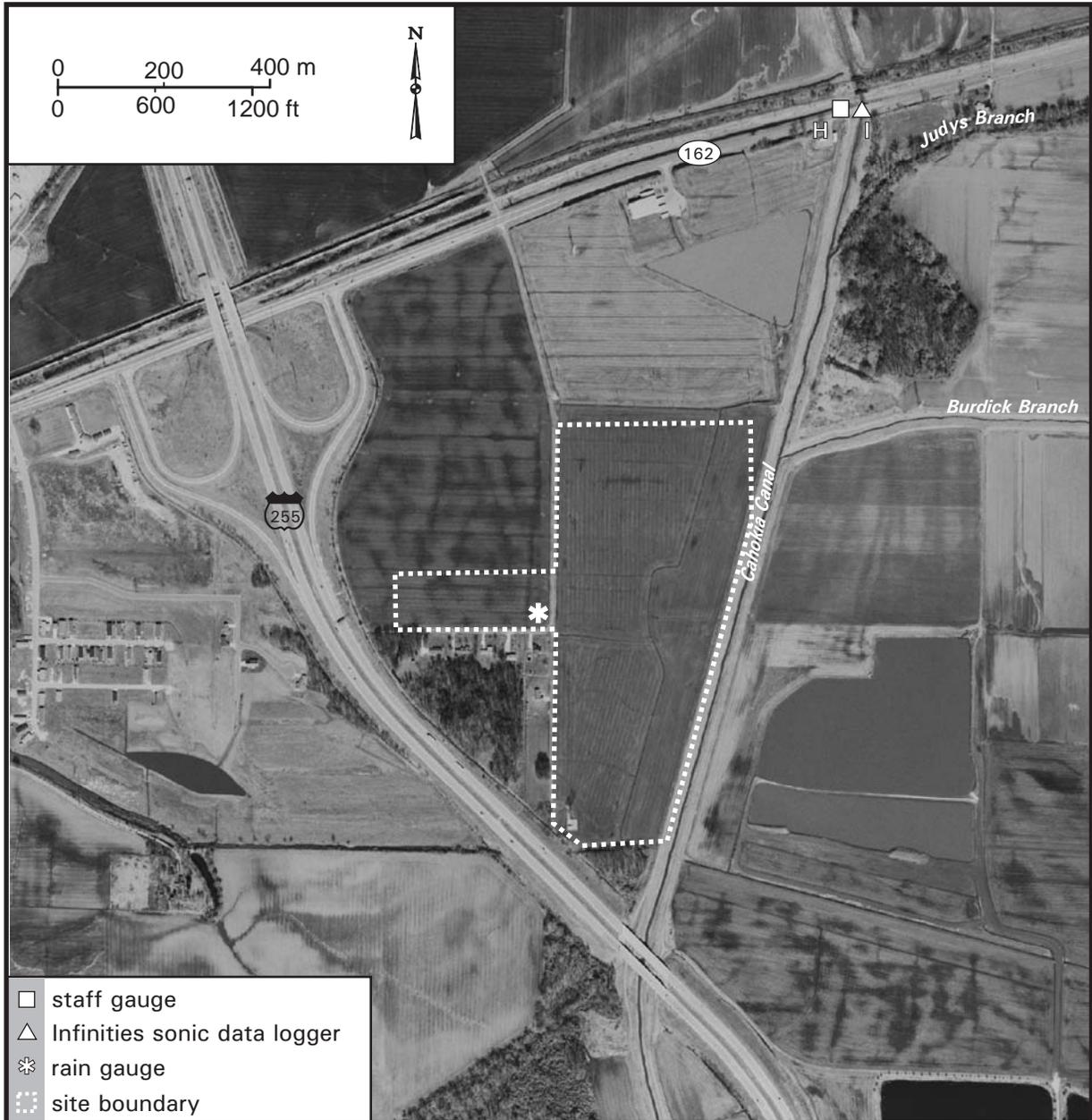
from the USGS Topographic Series, Monks Mound, IL 7.5-minute Quadrangle (USGS 1993)
contour interval is 10 feet



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Locations of ISGS Monitoring Instruments

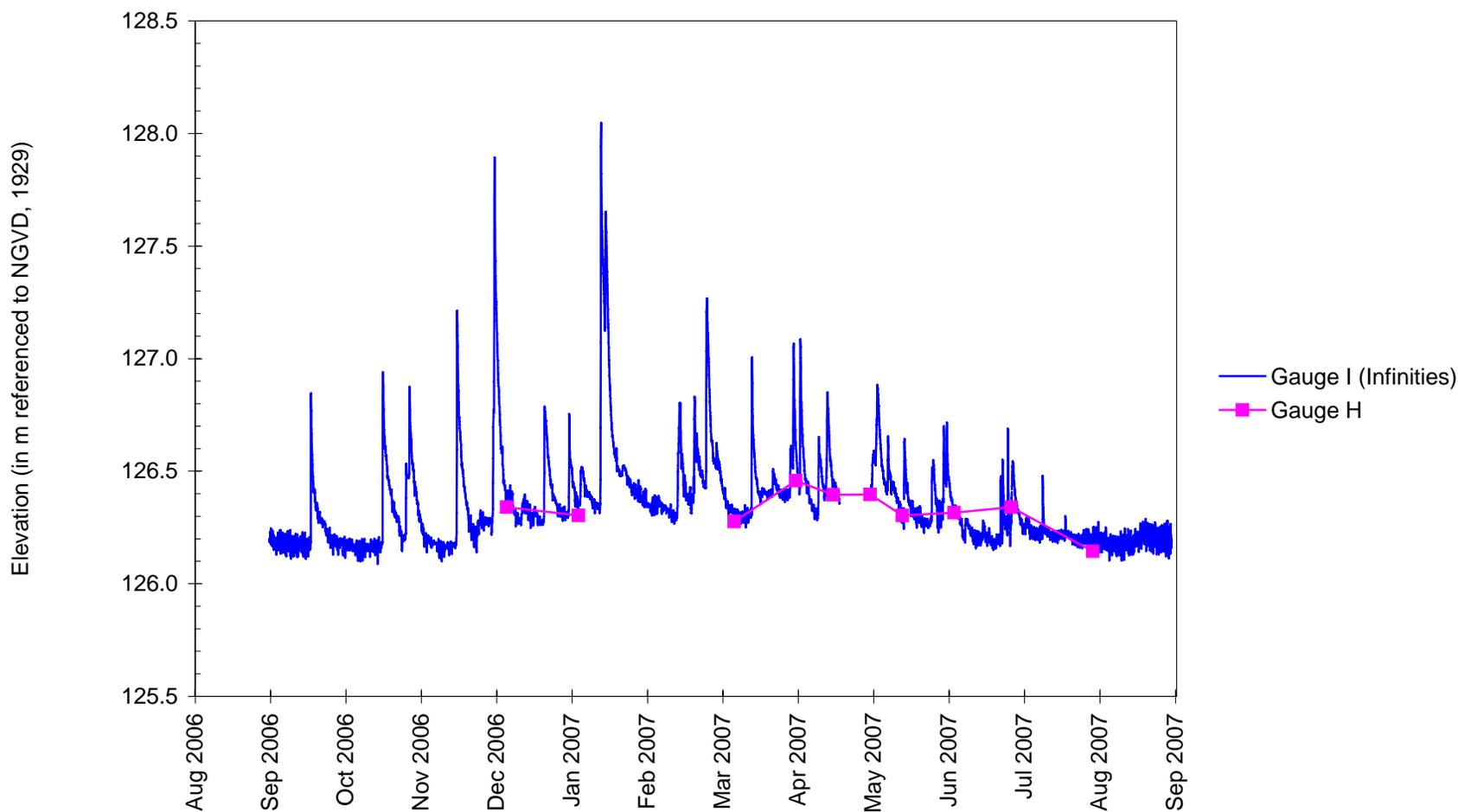
Map based on USGS digital orthophotograph, Monks Mound NE quarter quadrangle
produced from 2005 aerial photography (ISGS 2006)



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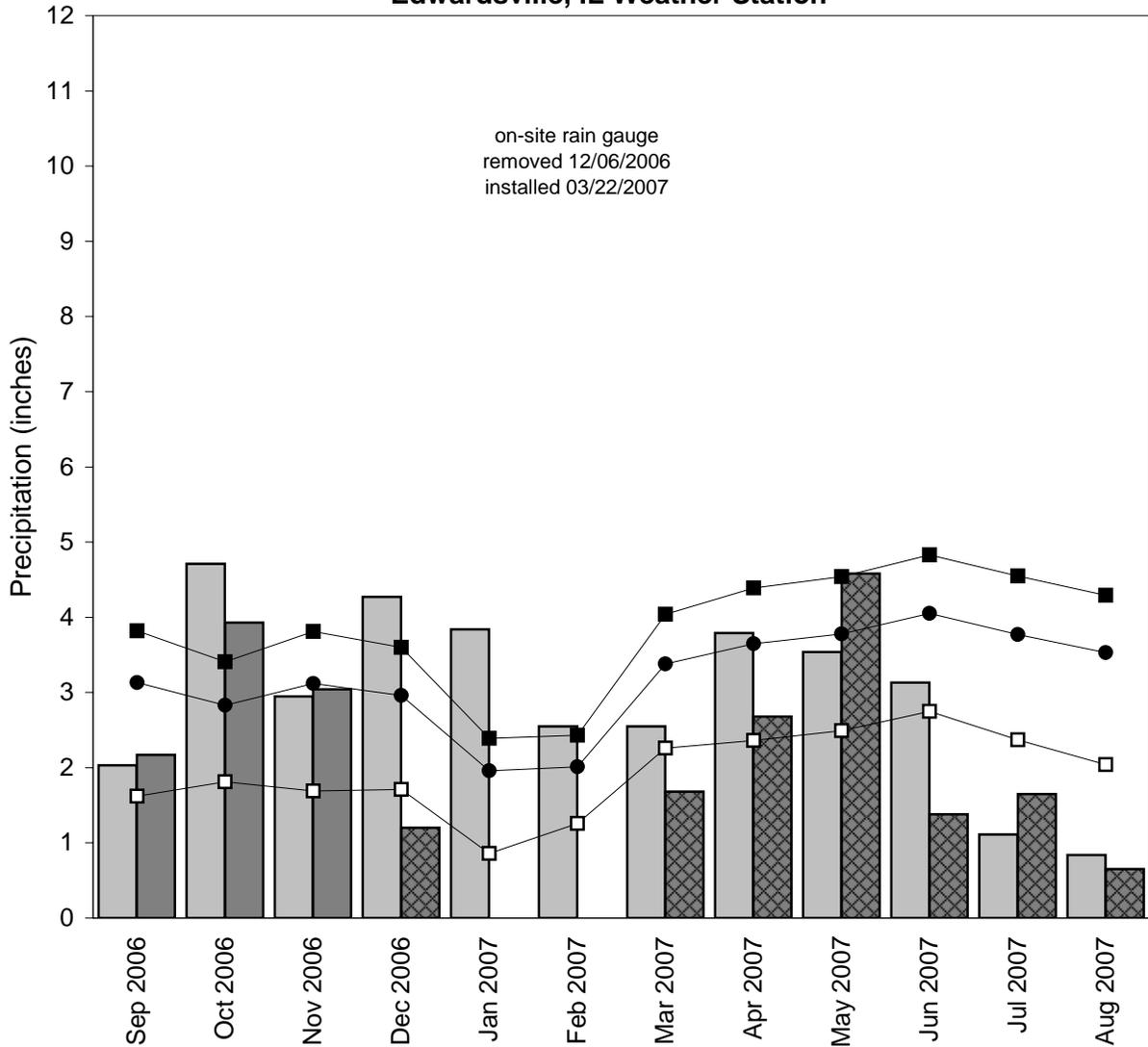
September 1, 2006 to September 1, 2007

Water-Level Elevations



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September 2006 through August 2007
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
- 1961-1990 monthly 30% above average threshold (National Water and Climate Center)
- 1961-1990 monthly average precipitation (National Water and Climate Center)
- 1961-1990 monthly 30% below average threshold (National Water and Climate Center)
- ▨ data incomplete