



**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 2006 EVENTS

The total area of the Former Luehmann Property Potential Wetland Compensation 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 Midwestern Climate Center, 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 71% of normal. Below-normal precipitation was reported through most of the monitoring period. Normal to above-normal precipitation was only reported during four months, September and November 2005, and January and March 2006.
- Measurements in the Cahokia Canal indicate that the water level exceeded 126.8 m (416 ft) on several occasions during the growing season, on April 6 and July 21, 2006. This is the suggested elevation of an intake culvert described in the Level II Report (ISGS Open-File Series 2003–09).

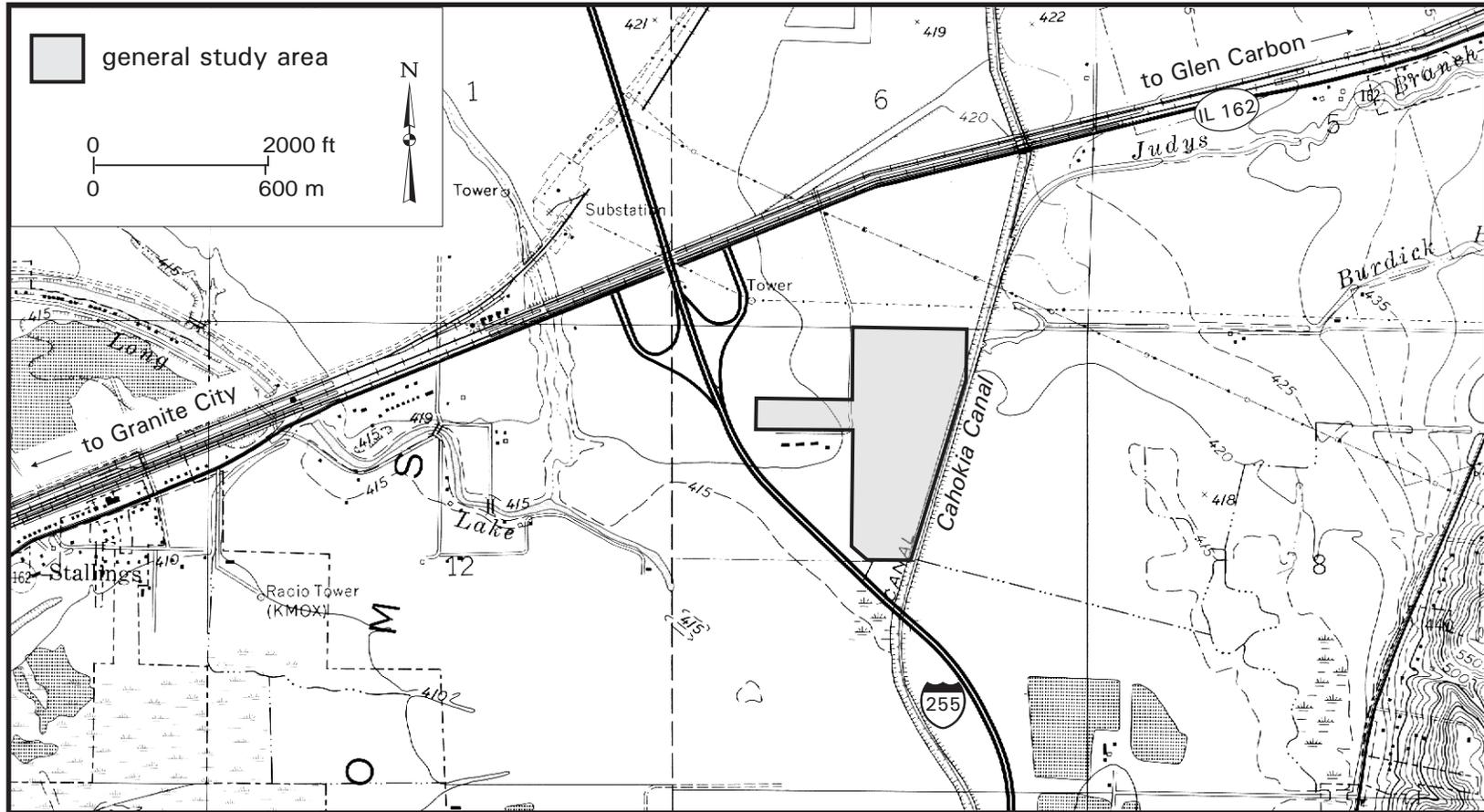
PLANNED FUTURE ACTIVITIES

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

Former Luehmann Property, New River Crossing Potential Wetland Compensation Site (FAP 999)

General Study Area and Vicinity

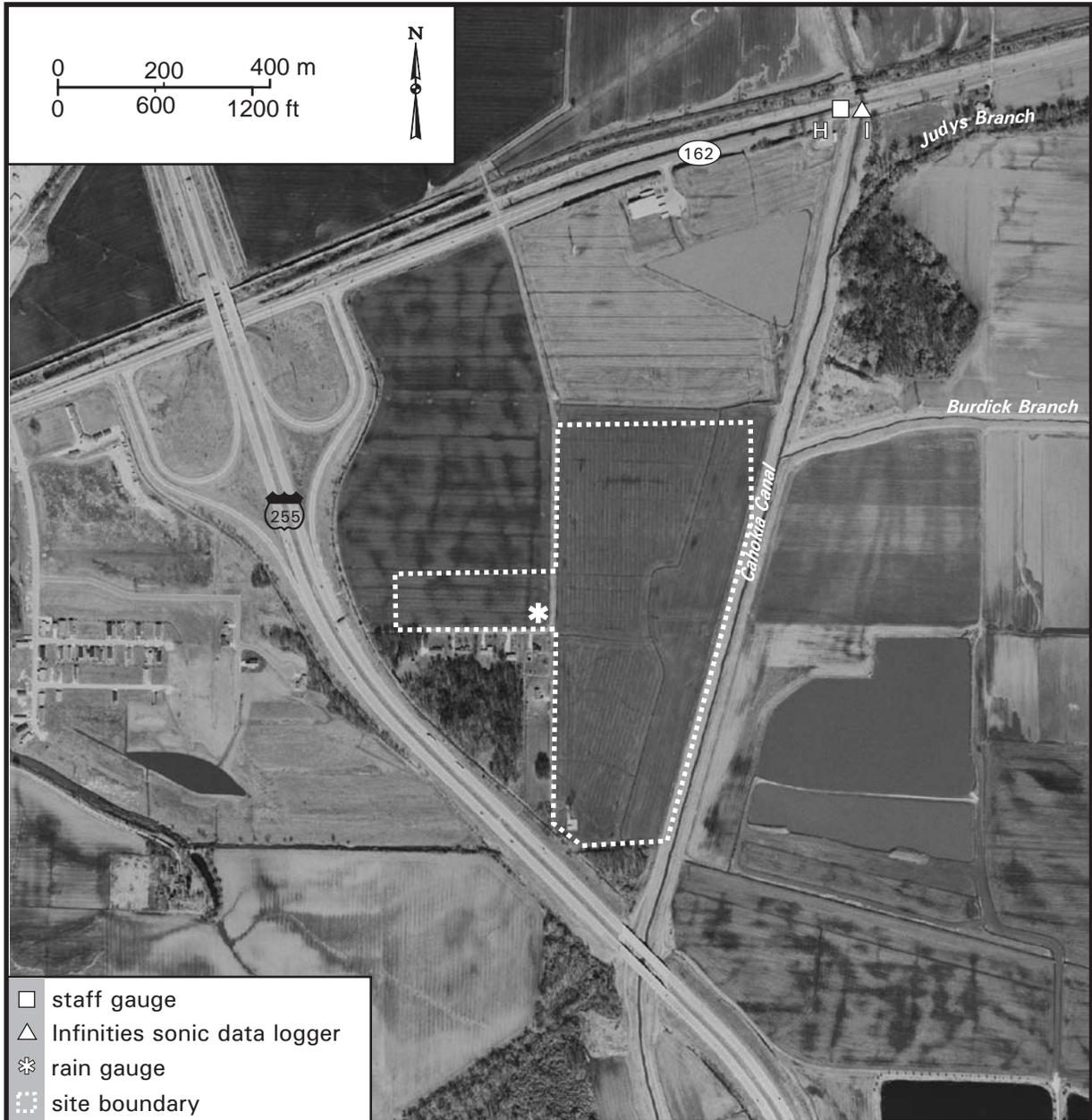
from the USGS Topographic Series, Monks Mound, IL 7.5-minute Quadrangle (USGS 1993)
contour interval is 10 feet



Former Luehmann Property, New River Crossing Potential Wetland Compensation Site (FAP 999)

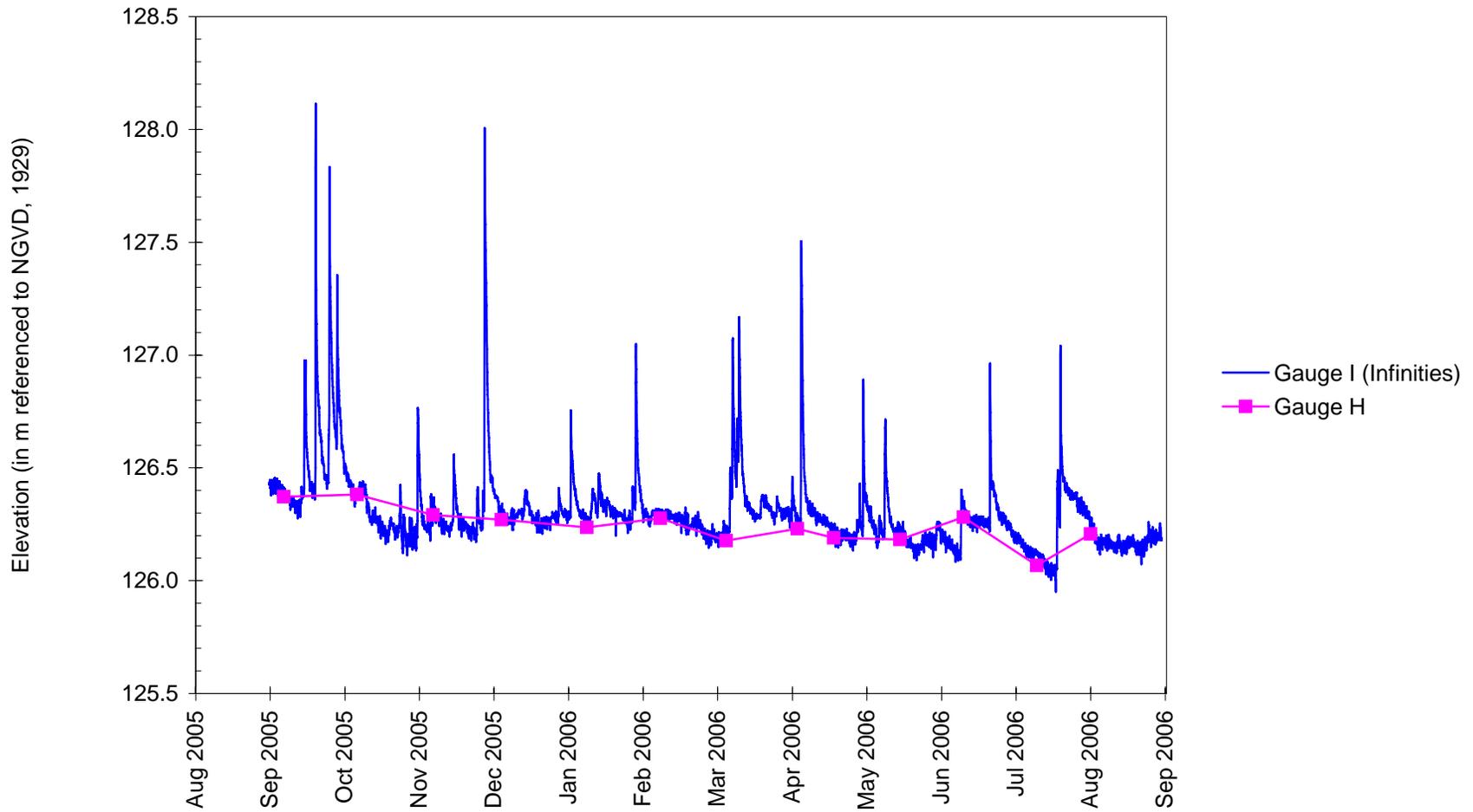
Locations of ISGS Monitoring Instruments

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

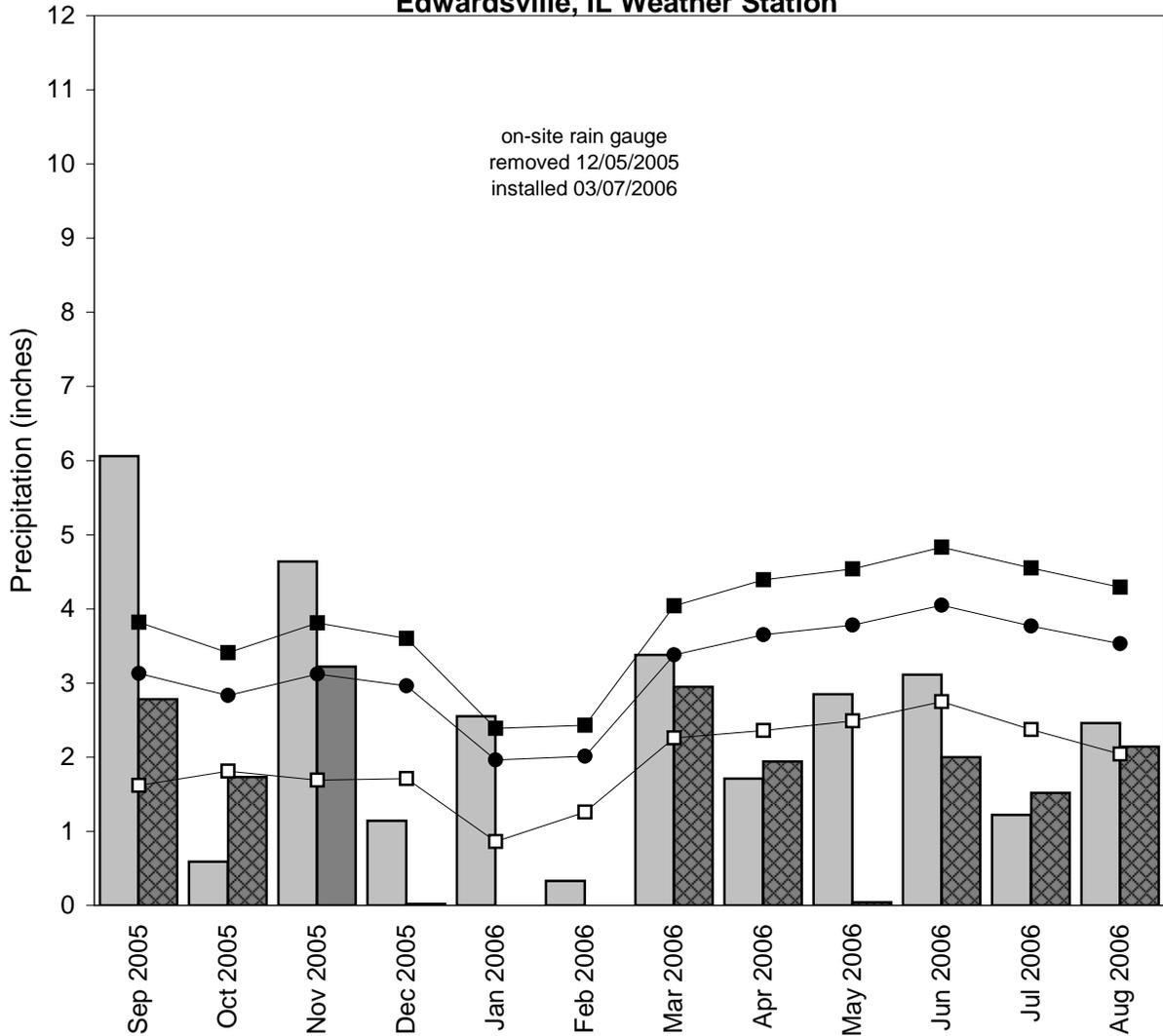


Former Luehmann Property, New River Crossing Potential Wetland Compensation Site
September 1, 2005 to September 1, 2006

Water-Level Elevations



**Former Luehmann Property, New River Crossing
Potential Wetland Compensation Site
September 2005 through August 2006
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)
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- 1961-1990 monthly 30% below average threshold (National Water and Climate Center)
- ▨ data incomplete

Graph last updated October 13, 2006