



Proposal for an Environmental Research and Monitoring Station in Lick Creek Park

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Purpose and Uses

- Rural monitor of background air pollution levels
- Monitor of air pollution transported from Houston
- Monitor of biogenic emissions from oak woodland
- Monitor of dry deposition of pollutants into oak woodland
- Testbed for development of sophisticated air quality measurement techniques

Benefits to Lick Creek Park and College Station

- Provide platform for measurements of the interactions between ecosystem and atmosphere
- Determine levels of atmospheric pollutants entering Lick Creek Park and College Station
- Educate public on air pollution levels and their possible effects (permanent interpretive display plus web site with real-time data)

Observational Requirements

- Representative oak woodland
- Minimal long-term human activities (cars, etc.) to southeast, south, and southwest
- Easy access to roads
- Tower extending to $5/4$ the height of the tree canopy



Specifications

- Modular 66' walk-up tower
- Fenced enclosure with one trailer and room for another
- Guy wires in all four directions
- Concrete foundation
- Electricity and telephone



Site Location



Artist's Rendering



Concluding Remarks

- Resource for the Second Texas Air Quality Study (April 2005 thru October 2006)
- Available for use by other researchers
- One of three sites planned for eastern Texas
- Funding from Texas A&M University, the Environmental Protection Agency, and the Texas Commission on Environmental Quality