NG911 Address Point Jurisdiction Quality Assurance
Pleasant Grove, Alabama

Objective

To evaluate whether NG911 address points associated with Pleasant Grove fall within the correct Public Safety Answering Point (PSAP) boundary and identify potential jurisdictional discrepancies that could impact emergency call routing.

Data

- NG911 Site/Structure Address Points
- Pleasant Grove PSAP Boundary
- Esri World Topographic Basemap

Methodology

A spatial selection analysis was performed in ArcGIS Pro using the "Select By Location" tool. Address points not located within the Pleasant Grove PSAP boundary were identified using an inverted spatial relationship query. Results were visually reviewed to confirm spatial alignment and assess boundary edge conditions.

Findings

A small subset of address points were identified outside or directly adjacent to the PSAP boundary. Most discrepancies occurred near boundary edges, suggesting tolerance or boundary alignment issues rather than widespread data errors.

Significance

Accurate jurisdictional alignment of address points is essential for NG911 call routing. Identifying edge-case discrepancies supports proactive remediation and reduces the risk of call misrouting or delayed emergency response.

Tools & Skills

- ArcGIS Pro
- Spatial query analysis
- NG911 data validation
- Cartographic layout design