# Model Builder Challenge #1

## Concept

Automating GIS tasks is an essential skill for geospatial professionals. Since this user group is esri-focused, we would like to encourage members to explore the native ArcGIS graphical automation tool, ModelBuilder.

## Resources

ESRI provides numerous training resources on ModelBuilder:

<http://training.esri.com/gateway/index.cfm?fa=catalog.webcoursedetail&courseid=2168>

<http://video.esri.com/watch/663/getting-started-with-modelbuilder>

<http://resources.arcgis.com/en/help/main/10.1/index.html#//002w0000007v000000>

<http://proceedings.esri.com/library/userconf/cahinvrug09/papers/tech-workshops/arcgis_desktop_fundamentals_of_using_modelbuilder.pdf>

There are also many third party companies that provide instruction.

## Scenario

You are a GIS Analyst for a fictional city and have just found out about two accidents. A truck carrying a liquid chemical has spilled its cargo. Luckily, the chemical is only hazardous when mixed with another chemical. Unfortunately, a crop duster carrying that exact other chemical (equally harmless unless mixed) accidently sprayed over the city, partially overlapping the liquid spill. You are tasked with identifying those land parcels that are exposed to the combined chemicals. Using the sample data, create a ModelBuilder project, and submit your solution before the next user group meeting.

## Scoring

1. Does the model produce the desired result?
2. Is the model efficient?
3. Is the model documented?
4. Is the model and data packaged for easy sharing via email?