

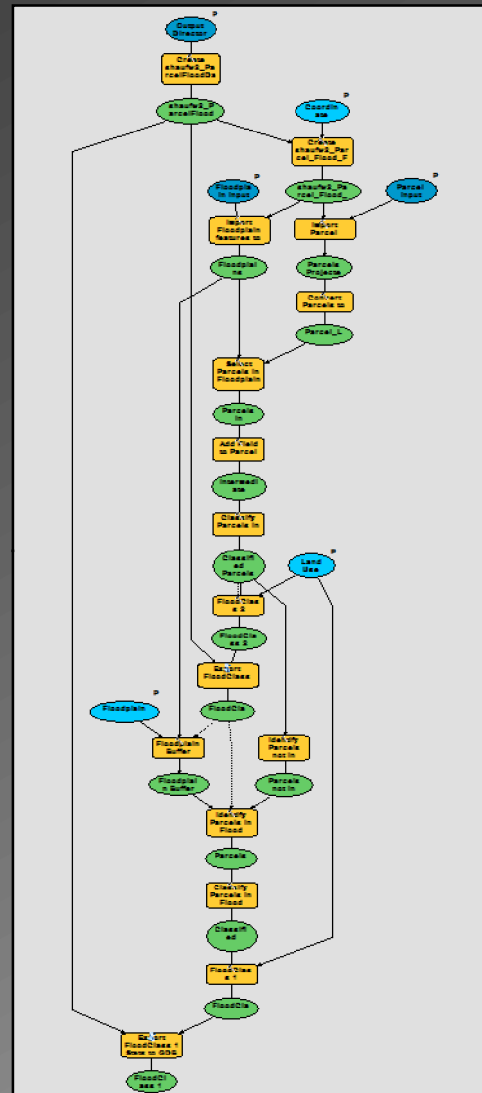
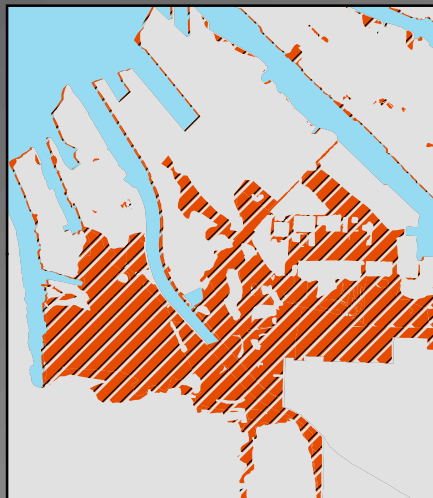
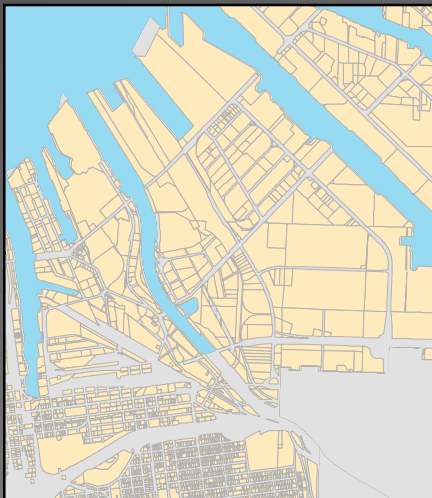
Model Builder

Floodplain and Floodzone Analysis Tool

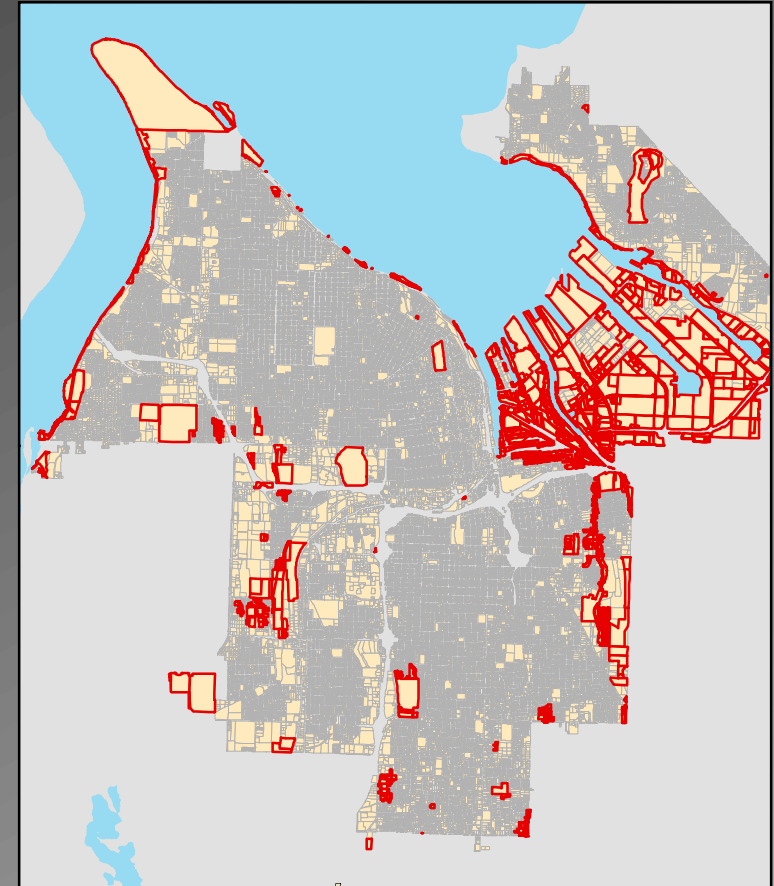
This layout illustrates a Flood Analysis Tool created with Model Builder within ArcMap 10.2.1. The Output of this tool produces two tables, including: Parcels located within the floodplain and another containing parcels within a specified distance from the existing floodplain that could be at risk of flooding during heavy rainfall. Both tables categorize the impacted parcels by landuse designation providing a quick reference as to the impact of flooding on the specific area of interest.

ArcGIS Tools + Methods

- ArcGIS ModelBuilder
- Add Variables, set Parameters and Preconditions within model.
- Meta Data Editor allows user to provide a model interface with detailed explanation of tool processes and requirements



- Parcel Shapefile
- Floodplain Shapefile
- Parcels In Floodplain



The primary inputs and parameters needed to successfully run this tool, are as follows:

Two polygon shapefiles containing, Floodplain and Tax Parcels within the geographic area of interest. Landuse designation field name for Tax Parcels. And a buffer distance to establish a selected floodzone or area that could be impacted by heavy flooding. This tool will also require an output directory and an input coordinate system.