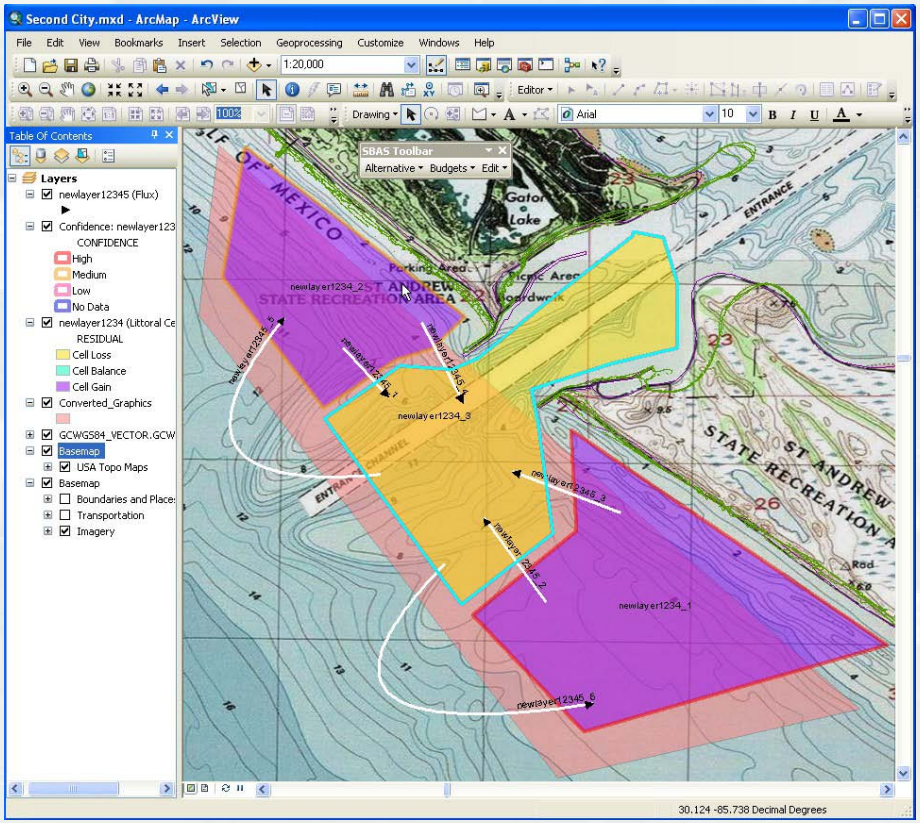
SBAS Toolbar for ArcGIS 10
Project Update

August 11th, 2011



Background

- SBAS PC Tool
  - Not spatially aware
  - Does not leverage the inherent capabilities of a GIS application such as ESRI ArcGIS
- Current SBAS Toolbar Addon
  - Not compatible with ESRI ArcGIS 10
  - Outdated source code, almost 10 years old

Phase I Goals

- Upgrade toolbar to be compatible with ArcGIS 10
- Implement web browser interface for viewing sediment budgets
- Update User Guide

Phase I, Toolbar Conversion

- Update source code for all existing functions

✓New Alternative
✓Copy Alternative
✓Save Alternative
✓Set Preferences
✓Load SBAS Layer
✓Convert Graphics to Layer
✓Add Graphics to Existing Layer
✓Set Confidence Levels
✓Show Confidence Levels
✓Cell/Flux Edit

Load Project Alternative
Remove Cell/Fluxes

Phase I, Toolbar Features

Feature Requirements

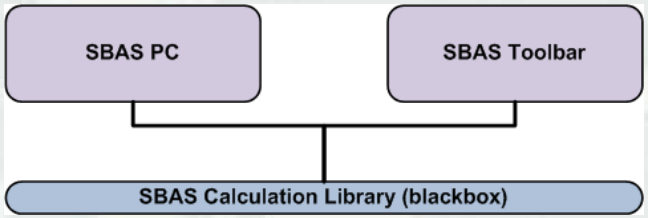
- ✓Draw polygonal and curved cells
- ✓Draw curved fluxes
- ✓Collapse/Uncollapse cells
- ✓Color code for confidence
- ✓Convert shape to cell
- ✓Convert line to flux
- ✓Force Balance
- ✓Color cells by volume
- ✓Adjust cell transparency
- ✓Annotate cells and fluxes
- ✓Summarize all elements in tabular form

Toggle legend Styles
Multiple placement/removal activities
Metadata
Metadata summary elements
Scale and round numbers

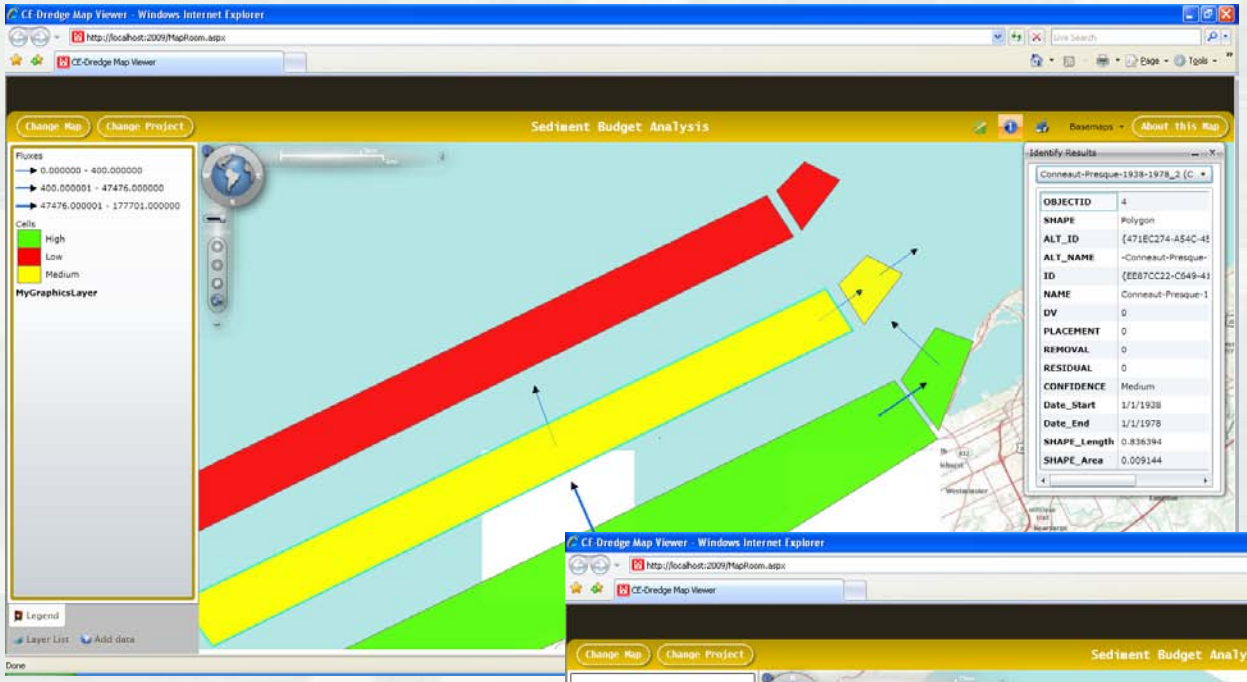
Phase II Goals

- Obtain source code from 3rd Party developer
- Implement features not available in current blackbox

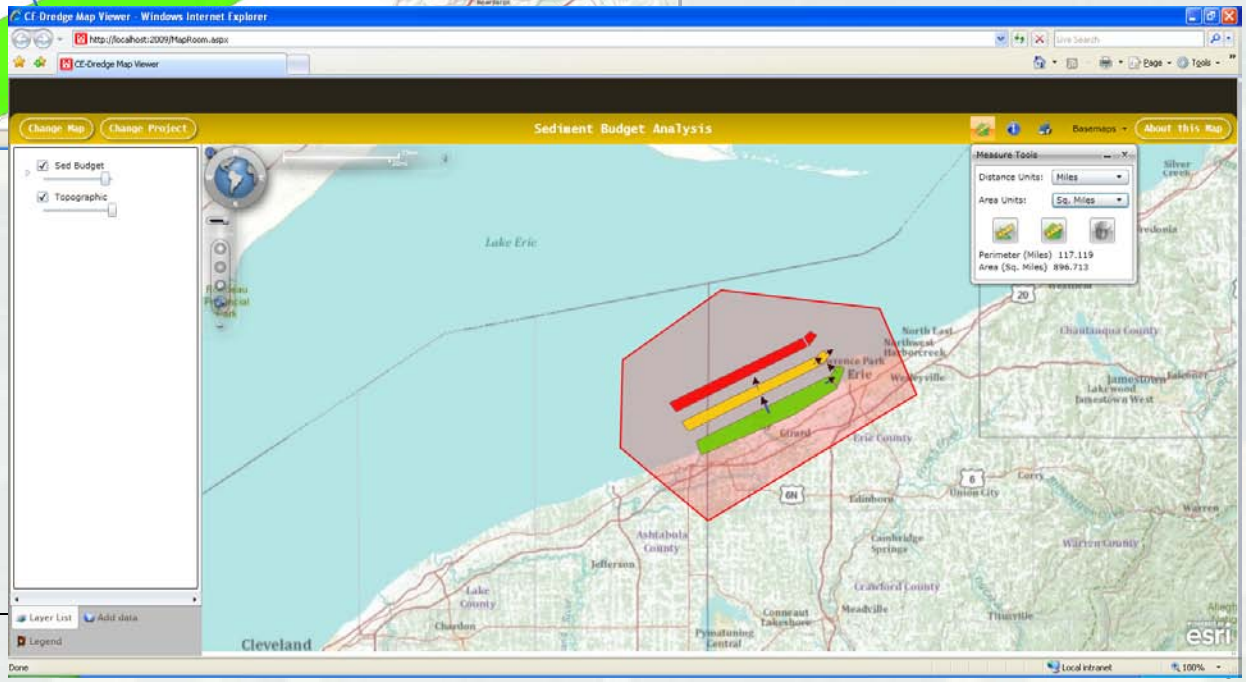
•Multiple placement/removal activities
•Metadata
•Metadata summary elements
•Scale and round numbers



Web Viewer

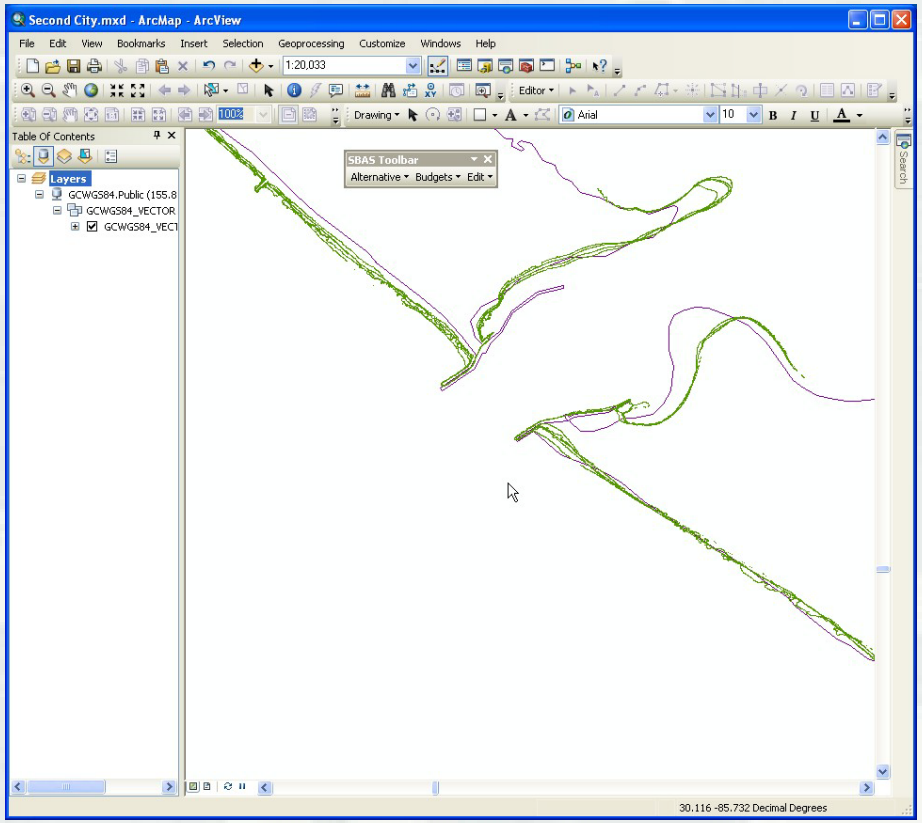


Indentify

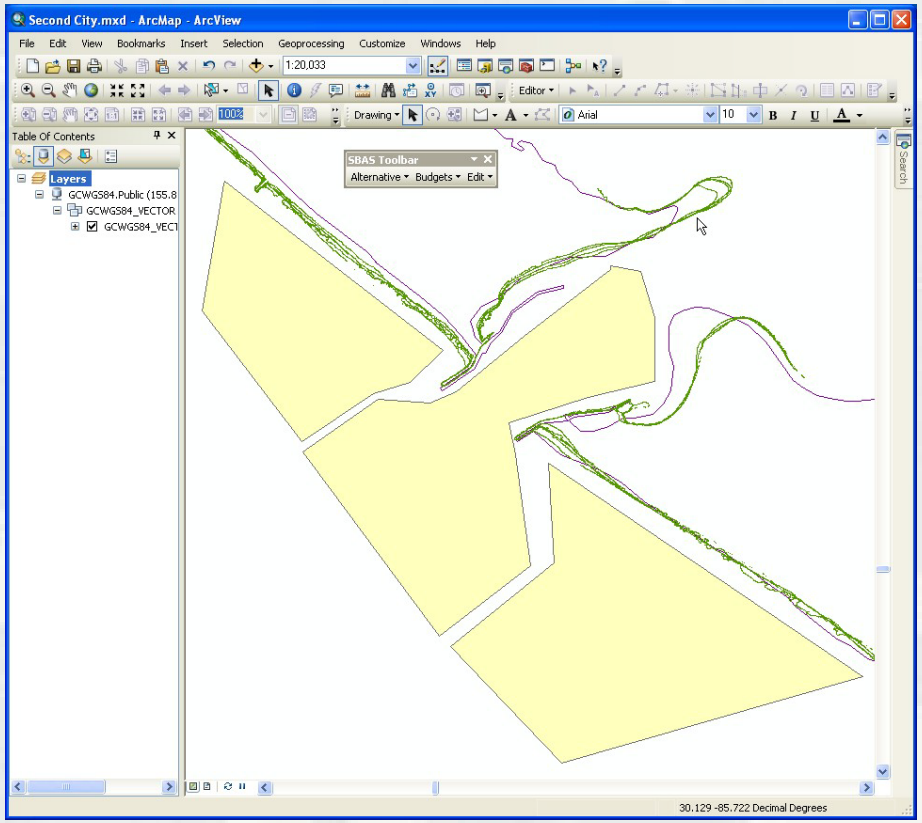


Measure

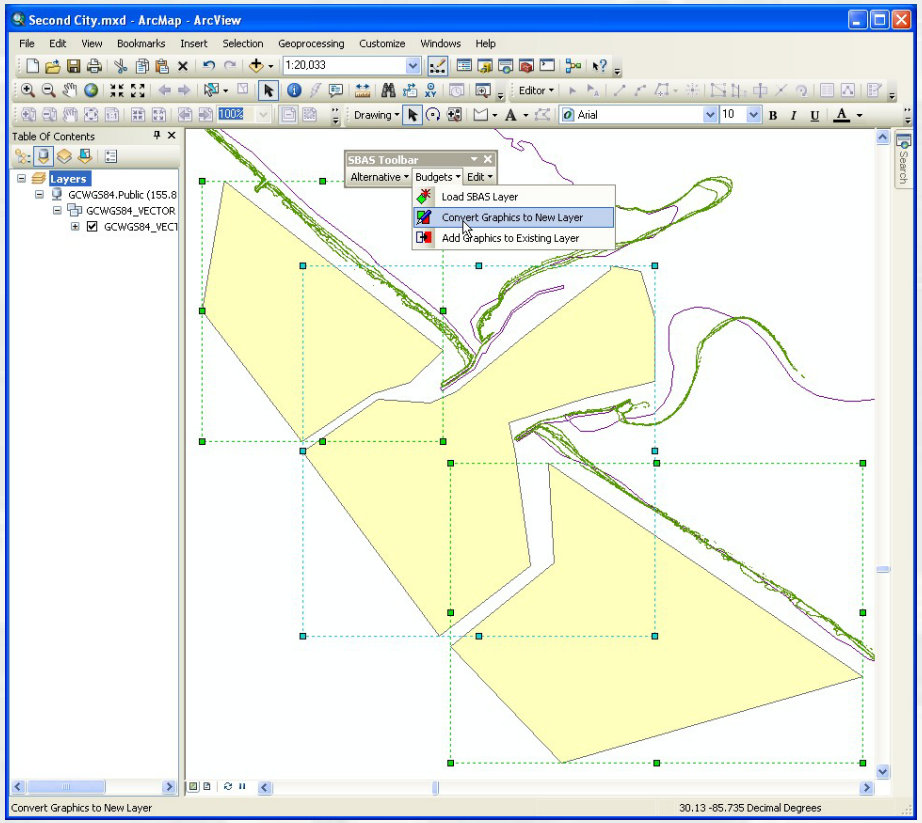
New Arc Map


Second City.mxd - ArcMap - ArcView
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:20,033
Editor
Drawing
Arial
10
Table Of Contents
Layers
GCWGS84.Public (155.8
GCWGS84_VECTOR
GCWGS84_VECT
SBAS Toolbar
Alternative Budgets Edit
30.116 -85.732 Decimal Degrees

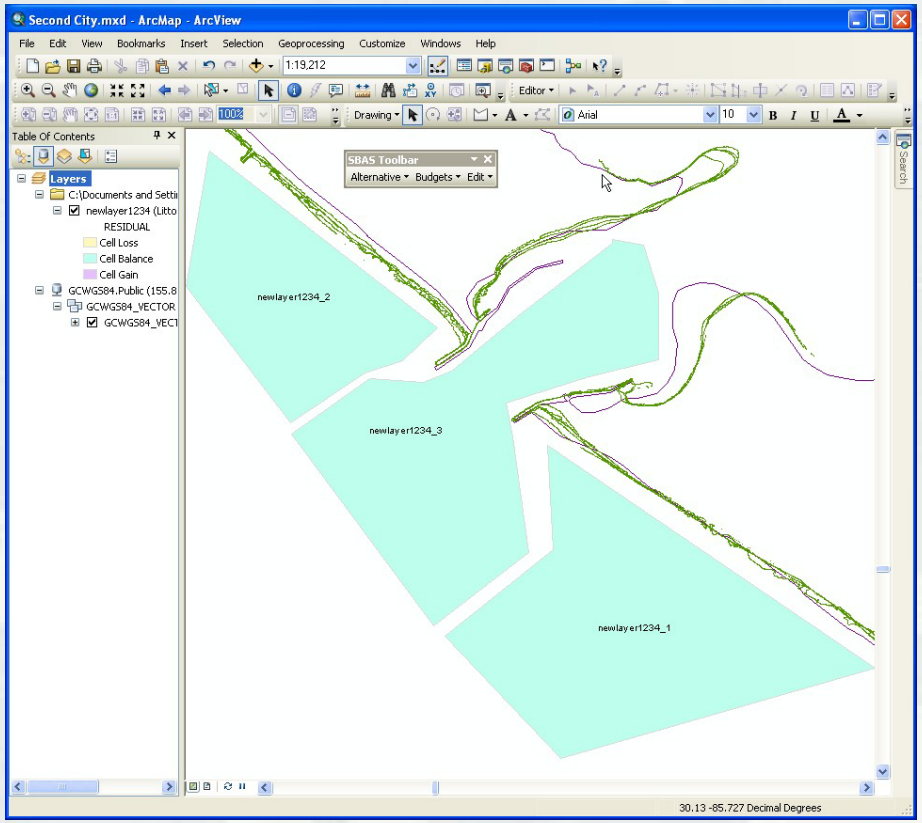
Draw polygons



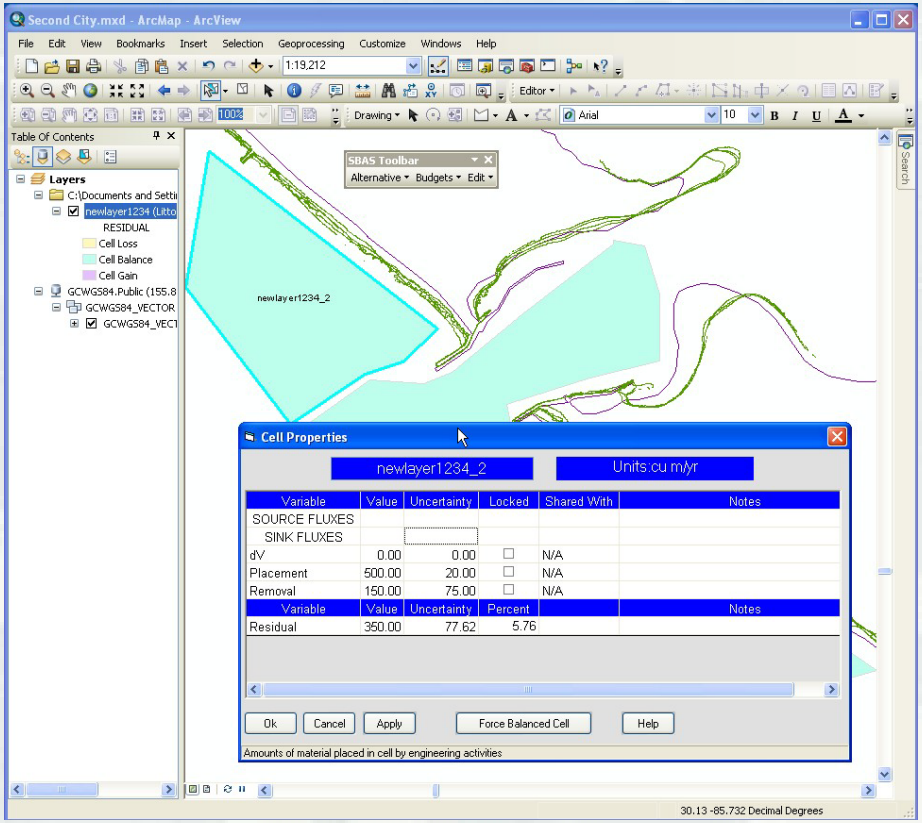
Convert to feature class



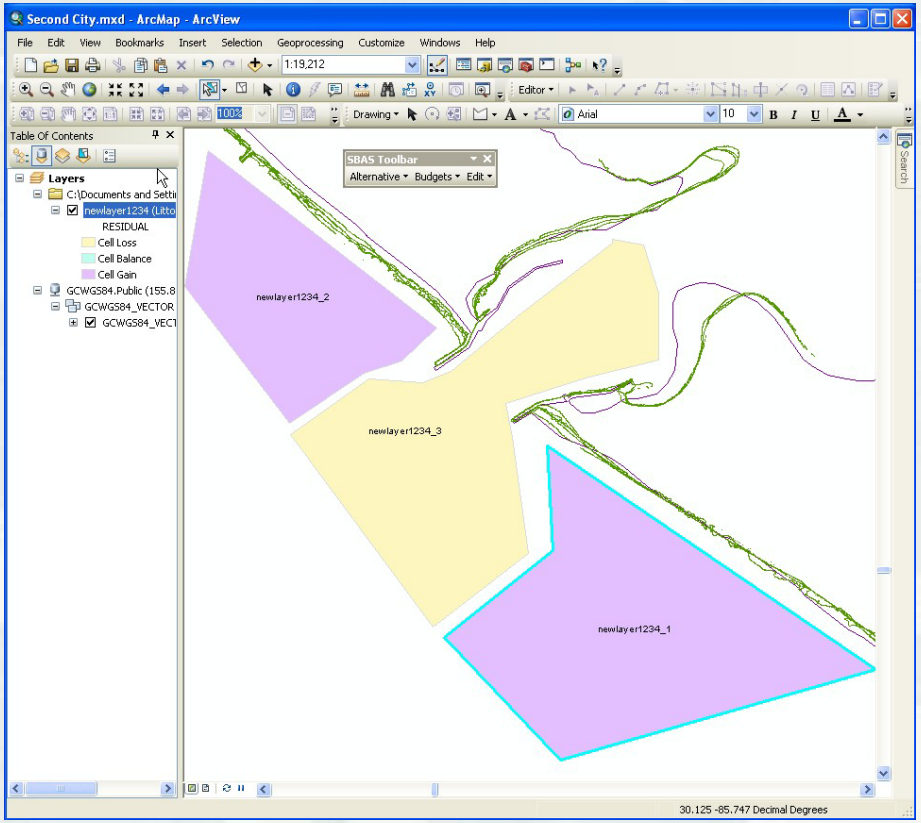
Feature class



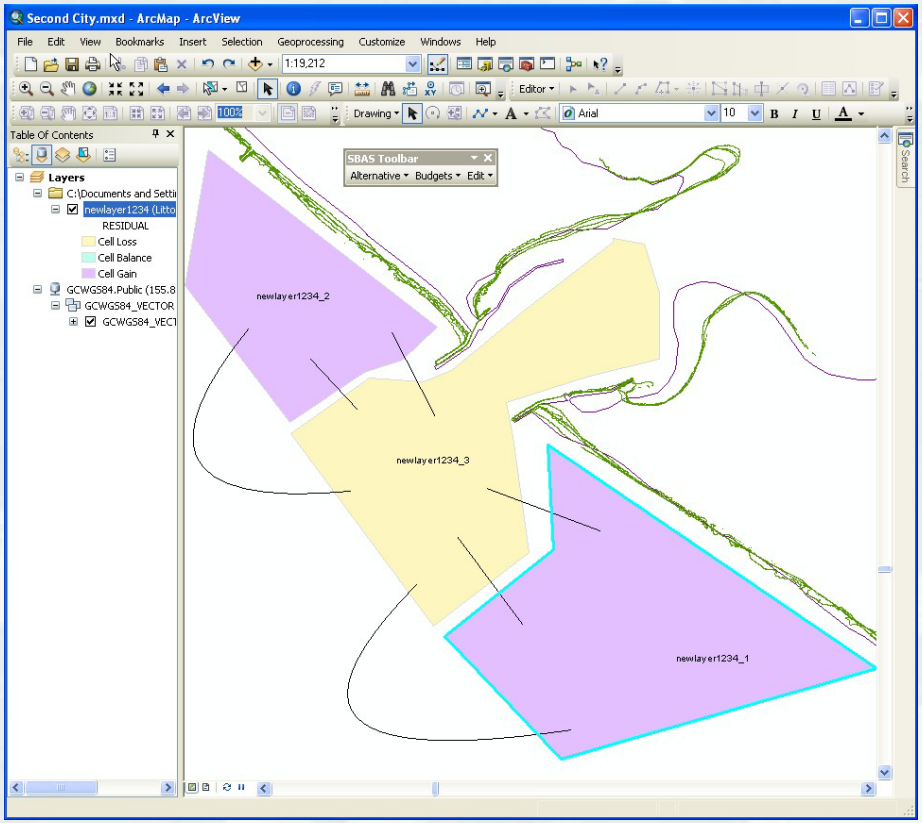
Input cell properties



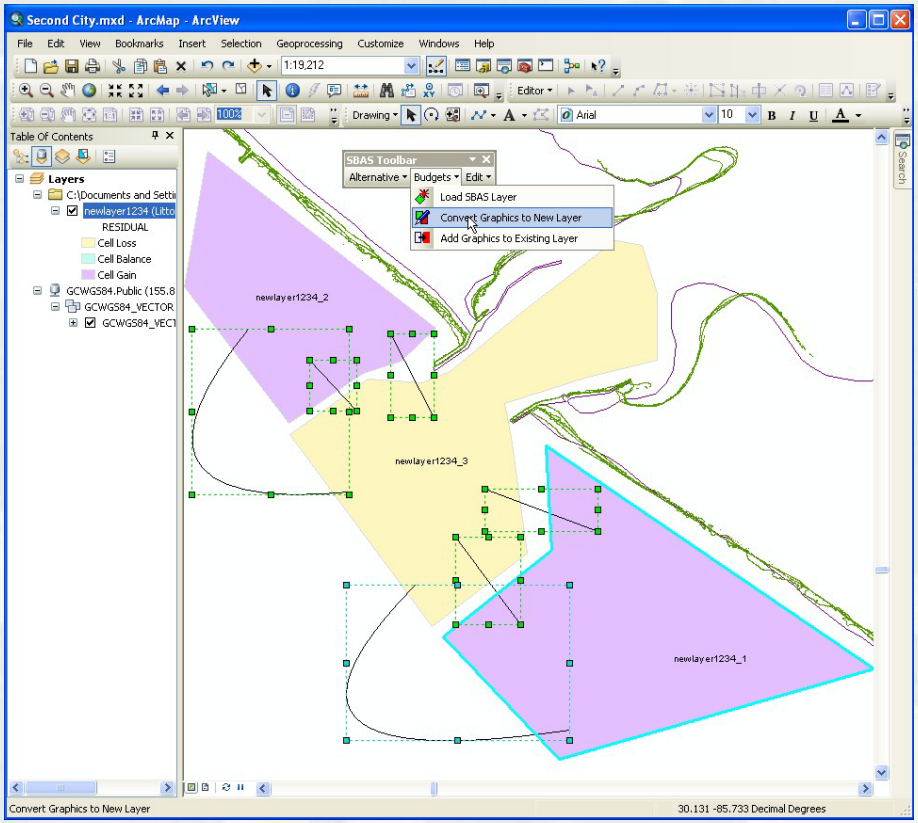
Cell properties, symbology colors cells



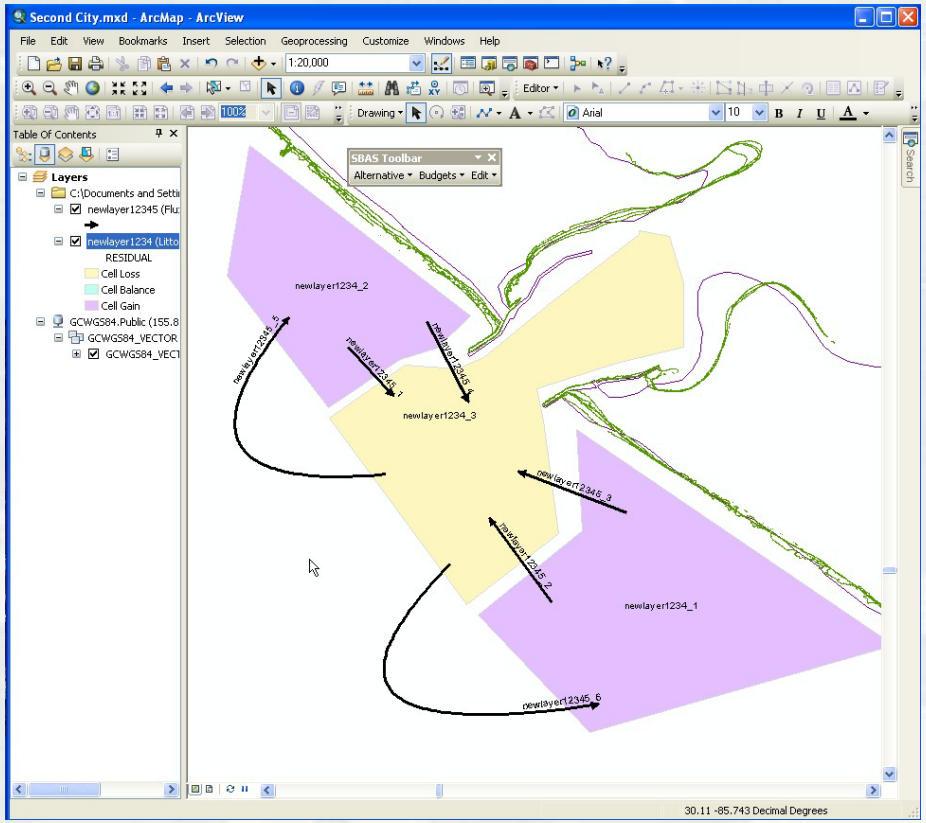
Draw flux lines



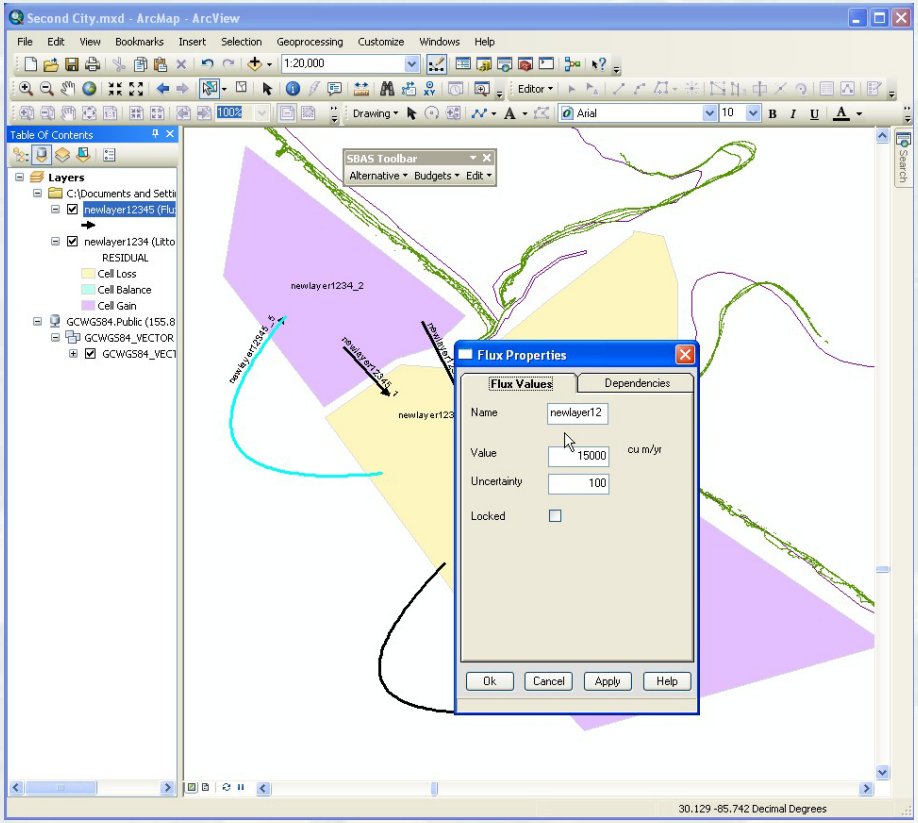
Convert flux lines to a feature class



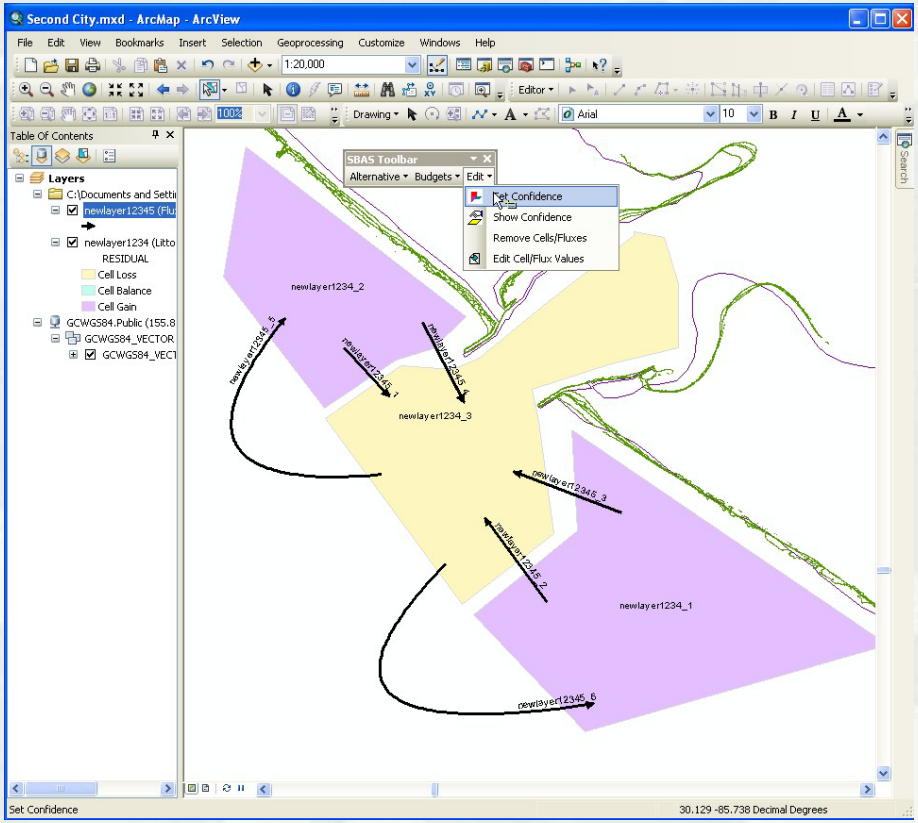
Flux line feature class



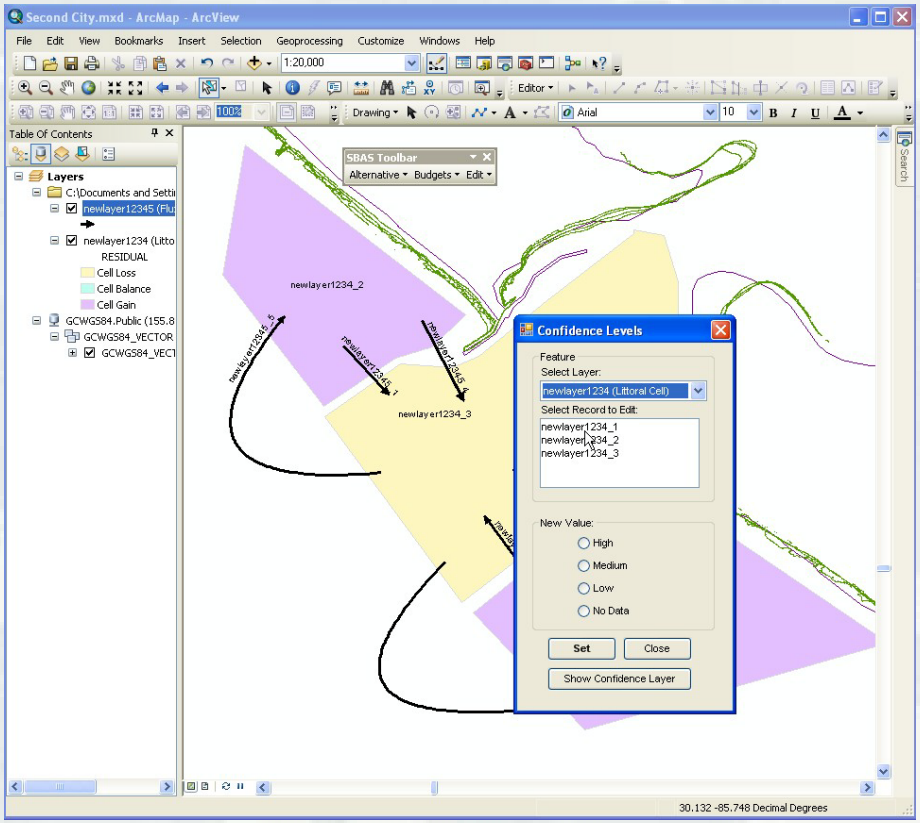
Update flux properties



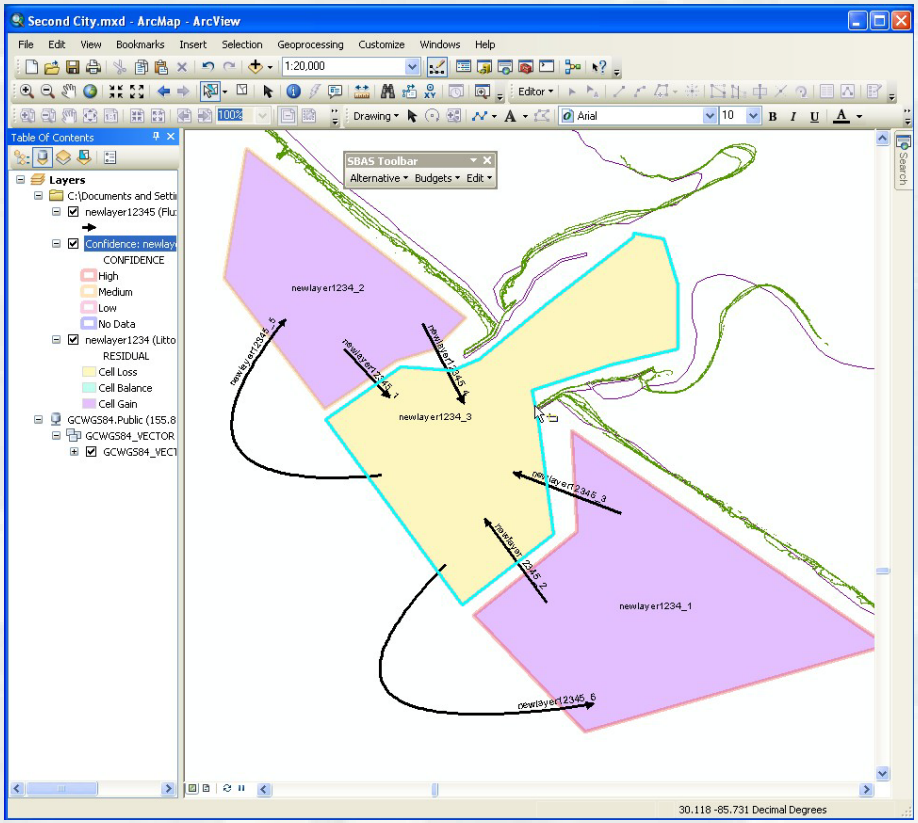
Update confidence levels



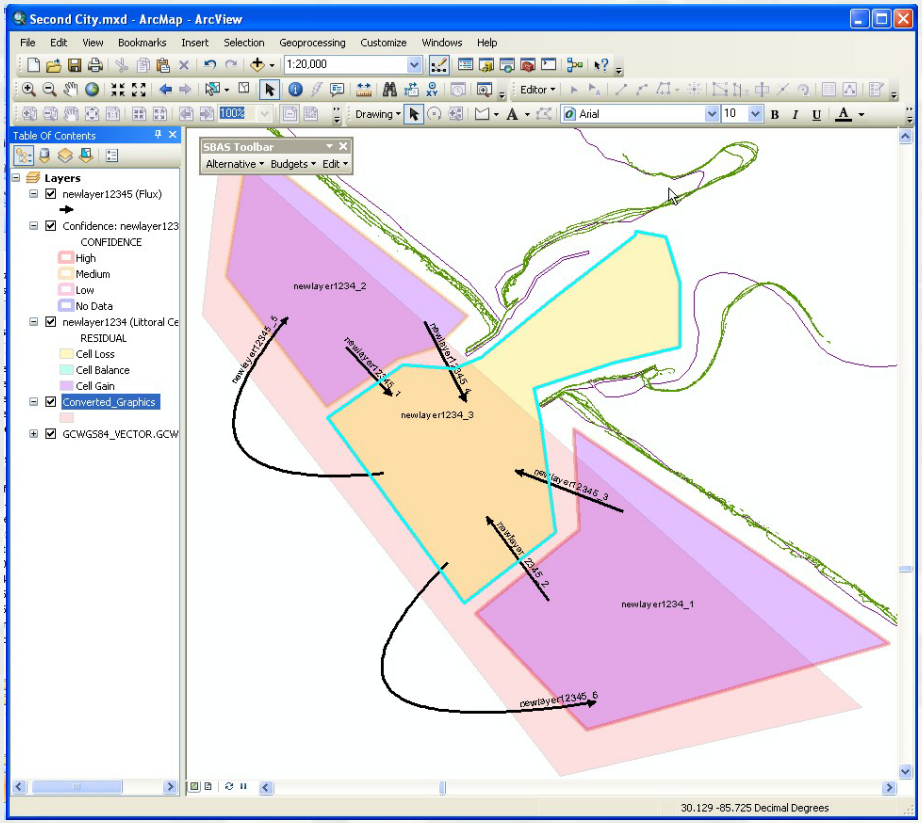
Set confidence levels



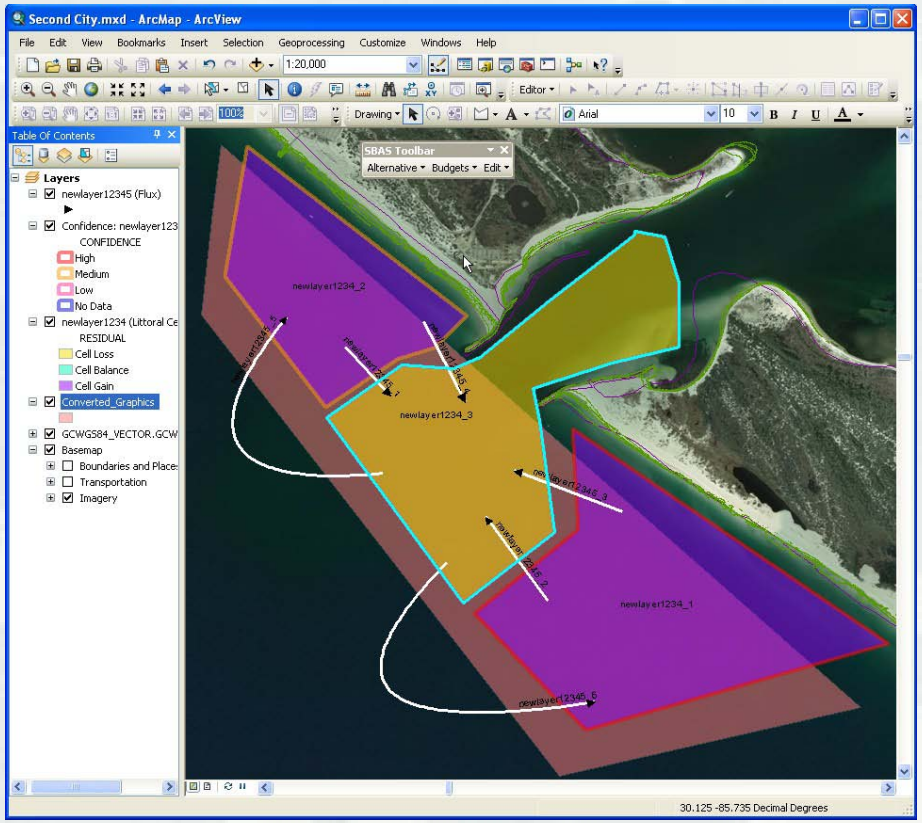
Show confidence levels, cell outline symboloy



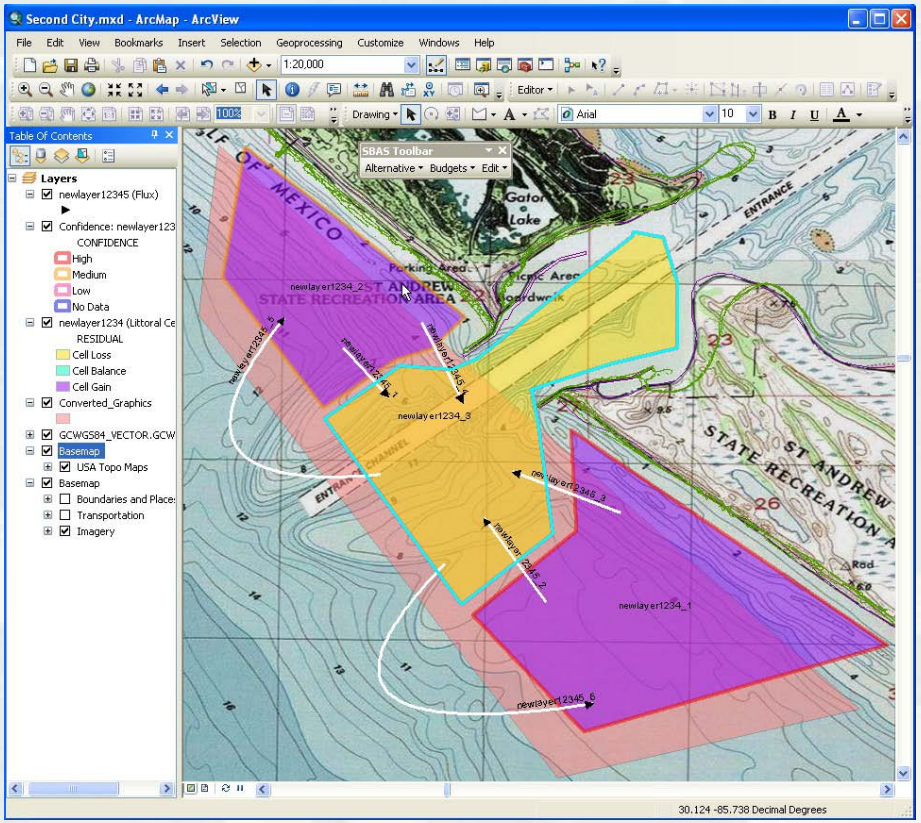
Shape with transparency added



Final map


Second City.mxd - ArcMap - ArcView
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:20,000
Editor
Drawing
Arial
10
Table Of Contents
Layers
newlayer12345 (Flux)
Confidence: newlayer123
CONFIDENCE
High
Medium
Low
No Data
newlayer1234 (Littoral Ce
RESIDUAL
Cell Loss
Cell Balance
Cell Gain
Converted_Graphics
GCWGS84_VECTOR.GCW
Basemap
Boundaries and Place
Transportation
Imagery
SBAS Toolbar
Alternative Budgets Edit
newlayer1234_2
newlayer1234_3
newlayer1234_1
30.125 -85.735 Decimal Degrees

Alternative final map



Thanks!