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Objective

• Become familiar with the Soil Resource Inventory Toolbox - QC (Quality Control) Toolbar functions
Soil Resource Inventory (SRITB) Toolbox

Quality Control (QC) Toolbar
The QC Toolbar contains five tools

• QC Error Inspector
• Find minimum size polygons
• Find common soil boundaries
• Find label mismatches
• Find edge mismatches
Access the QC Toolbar From the SRITB Edit Manager Toolbar
Quality Control Inspector

• Displays errors from a task in a table.
• Allows user to zoom to and fix errors.
• Table records are temporary. They are not saved when you quit ArcMap.
QC Extent

• Select extent for task
  – Full Extent
  – Visible Extent
  – Selected Features

When running a task on a smaller area, use the selected features option rather than visible extent. It runs much faster!
Find minimum size polygons task

- Stop Editing Session
- Left click on soils layer name in the Table of Contents to highlight*

- Click on the Find Minimum Size polygon task icon on toolbar

*May be a geodatabase featureclass or shapefile
Find minimum size polygons task

• Enter a value for area in either acres* or sq. meters

![Minimum Size Polygons Set...](image)

• Run task

* You do not need to have an Acres field in the table
Find minimum size polygons task

- Click on error inspector icon to display polygons smaller than specified size
Find minimum size polygons task

- Left click on a row in the table to select a feature
- Right click on the selected row to display options
Find minimum size polygons task

• Select and zoom to a feature using one of the zoom/select options
• Select Merge to merge selected small polygon with an adjacent polygon if needed...
• If the selected polygon is an “island” polygon, it is merged with the surrounding polygon

• If the selected polygon bordered by multiple polygons, an attribute box will appear
  – Click on the attribute in the left pane and the associated polygon will Flash on the screen
  – Select the polygon that has the desired attributes to retain
Export out All of the Errors to a Featureclass or shapefile

- Right click on any record in the error inspector table
- Select Save All Features to Shapefile

- Navigate to output location and give the new shapefile a name
QC Error Inspector TIP

• Clear all records from the table before running another quality control task.

• If you do not clear the records they are carried over from one task to the next until you quit ArcMap. This causes confusion.
Find common soil boundaries task

• Stop Editing
• Select extent for task
  – Full Extent
  – Visible Extent
  – Selected Features

When running a task on a smaller area, use the selected features option rather than visible extent. It runs much faster!
Find common soil boundaries task

• Left click on soils layer name in the Table of Contents to highlight

• Choose the common soil line task icon on toolbar
Find Common Soil Boundaries Task

• Wait for message box to appear when task is complete.* Then click OK

• Process uses a lot of resources. Avoid running other processes at the same time

* Note that features will appear in the error inspector as they are found. Wait until the process is completely finished to avoid processing errors
Find common soil boundaries task

- Click on error inspector icon to display polygons with common soil boundaries
Find common soil boundaries task

• Left click on a row in the table to select a feature
• Right click on the selected row to display options
Find common soil boundaries task

• Select and zoom to a feature using one of the zoom/select options

Two Edit Options:
• Select Merge to merge adjacent polygons if needed
• Select Edit Attributes to change an attribute if needed
Find common soil boundaries task

• Merge feature
  – When selected, both polygons sharing a common boundary are highlighted
  – After merging, one polygon remains, record is cleared from table
Merge Common Line Polygons

• If the selected polygon is an “island” polygon, it is merged with the surrounding polygon

• If the selected polygon is bordered by multiple polygons, an attribute box will appear
  – Click on the attribute in the left pane and the associated polygon will Flash on the screen
  – Select the polygon that has the desired attributes to retain
Find common soil boundaries task

- **Edit Attributes** feature
  - Attributes window opens allowing user to edit attribute of each selected polygon
- Click on polygon attribute in left pane and the polygon will flash
- Change the attribute in right pane
Export out All of the Errors to a Featureclass or shapefile

• Right click on any record in the error inspector table
• Select Save All Features to Shapefile

• Navigate to output location and give the new shapefile a name
Find common soil boundaries task

• Save Edits. Edits are not automatically saved when using the error inspector.
• Clear all records from the table before running another quality control task (Rt. Click > Clear Item).
Find Label Mismatches task

• Add adjacent shapefiles or feature classes to map

• Click LM task icon on toolbar
Find Label Mismatches task

- Select: Search symbol, Survey Sub-Areas, and Error Tolerance from drop downs
- Click Search button
Find Label Mismatches task

- Left click on a row of identified polygons to zoom to and select
- Right click on row to open Replace Symbol options
Find Label Mismatches task

• Select symbol to change from drop-down list

• Enter New Symbol, click OK

• Change is saved automatically, no undo!
Find Label Mismatches task

• Run label mismatch task again after editing labels
• Switch Sub-Area 1 and Sub-Area 2 to ensure all label mismatches are found
Find Edge Mismatches task

• Add adjacent shapefiles or feature classes to map

• Click EM task icon on toolbar
Find Edge Mismatches task

- Select: Search symbol, Survey Sub-Areas, and Error Tolerance from drop downs
- Click Search button
Find Edge Mismatches task

- Left click on identified polygons to zoom to and select
- Use appropriate editing tools to match edges
Find Edge Mismatches task

• Run edge mismatch task again after editing polygons
• Switch Sub-Area 1 and Sub-Area 2 to ensure all edge mismatches are found