

Template: Extract and Clip for ArcGIS 10.1

Version: 1.0

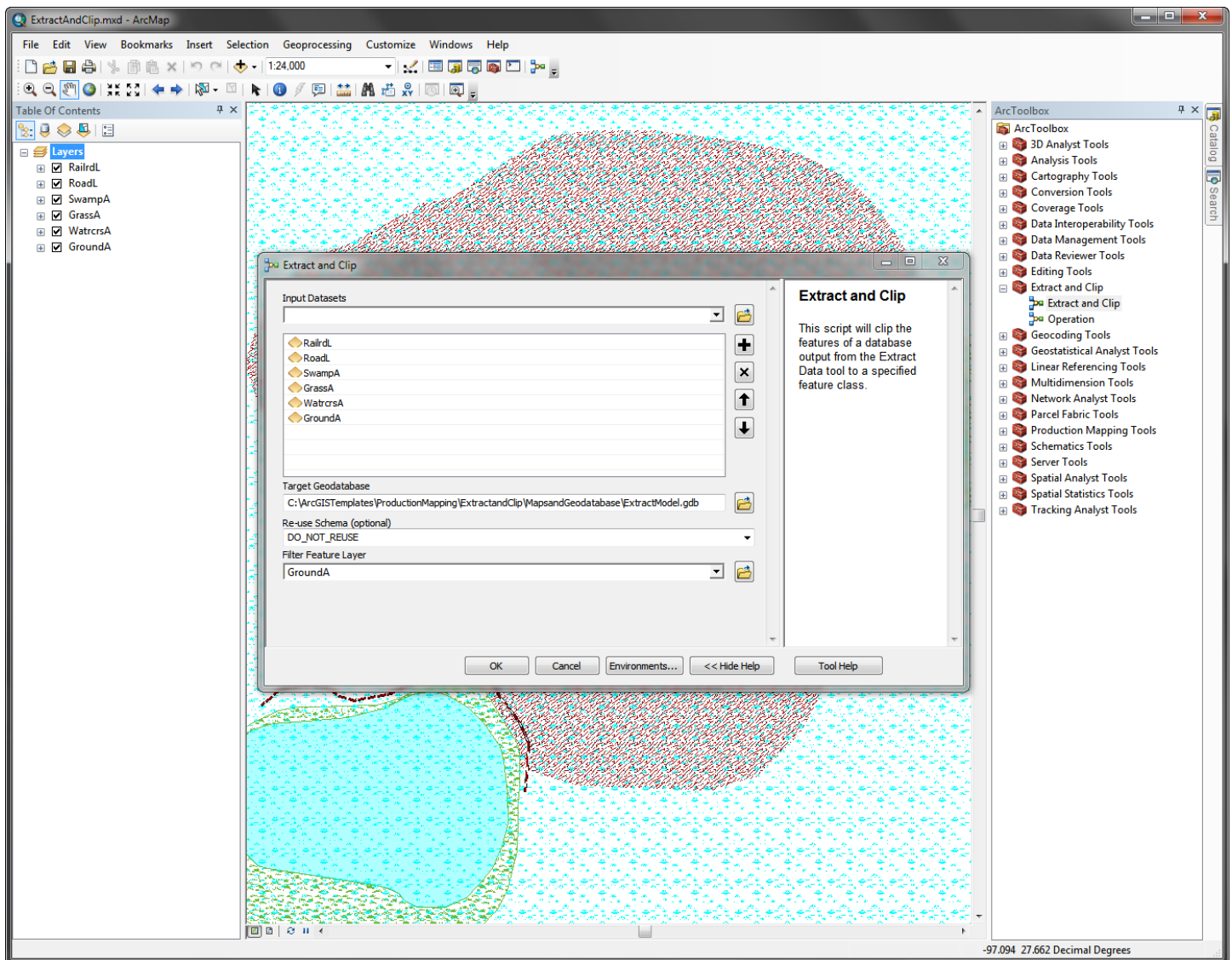
Date: October 12, 2012



## Introduction

The Extract and Clip for ArcGIS 10.1 template provides a model that extracts data from one geodatabase to another and then clips all the extracted features to a specified feature class. The model extends the [Extract Data](#) tool and is useful to anyone who would like to combine these two commonly used operations into one seamless step.

**NOTE: Use this tool at your own risk. This tool modifies the input data by splitting and clipping feature geometries. Once features are modified, you will not be able to retrieve the original feature geometries.**



## Template Contents

The following files are provided in this template:

Template Directory	Item	Description
Application	ExtractAndClip.tbx	An ArcGIS toolbox that contains the Extract and Clip and Operation model. The Operation model is an embedded process within the Extract and Clip model.
MapsandGeodatabase	ExtractAndClip.gdb	A geodatabase that contains sample data.
	ExtractAndClip.mxd	A map document with sample data loaded.
	ExtractModel.gdb	A geodatabase used as the target source for the Extract and Clip model.
	Getting Started with the Extract and Clip Template.pdf	A PDF document that describes how to get started using the template and release notes for each release.

## Software Environment

The following software must be installed:

- ArcGIS 10.1 for Desktop – Standard or Advanced
- Esri Production Mapping 10.1

## Additional Resources:

Click [here](#) to access the web help for ArcGIS 10.1.

Click [here](#) to access the web help for Esri Production Mapping 10.1.

Click [here](#) to request help from Esri Professional Services.

## Configure the Extract and Clip Template


You can configure this template in your environment and use the Extract and Clip model to extract data to another geodatabase and clip the extracted features to a specified feature class.

## Implementation Steps

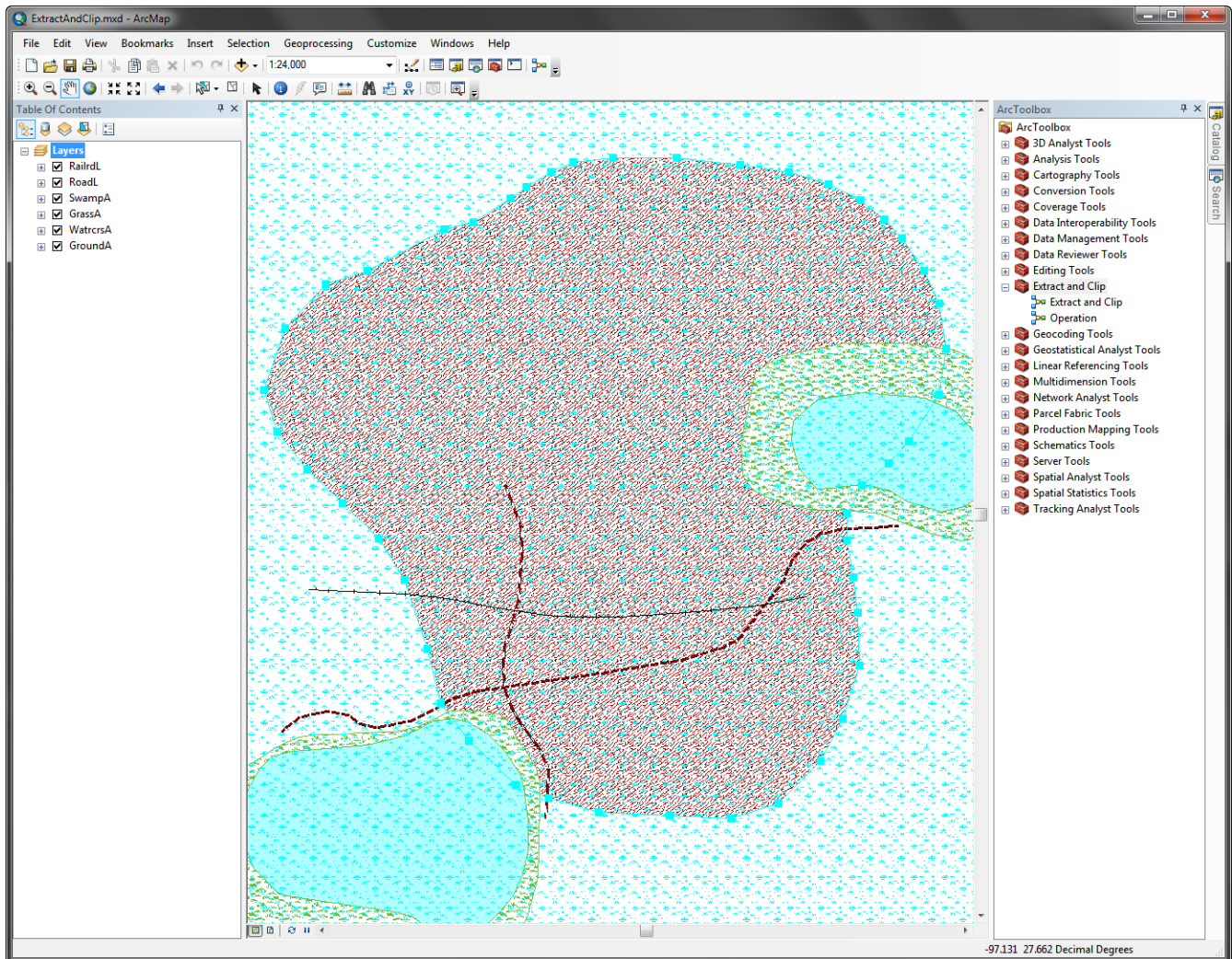
1. Unzip the **ExtractAndClip.zip** file and copy the contents into the following directory:
  - <your\_directory>\ArcGISTemplates\ProductionMapping
2. Navigate to the following directory and open the **ExtractandClip.mxd**.
  - <your\_directory>\ArcGISTemplates\ProductionMapping\ExtractAndClip\MapsandGeodatabase


## Perform an Extract and Clip

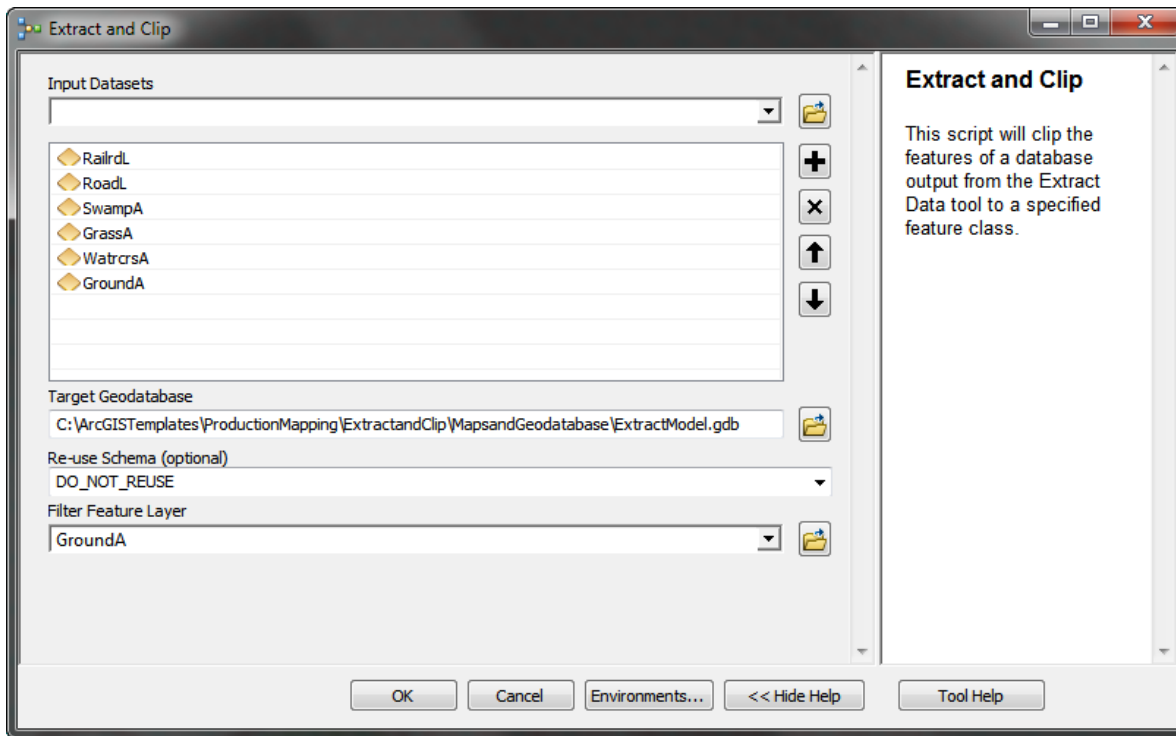
In this section you will execute the Extract and Clip model.

1. In the **ArcToolbox** window, right-click  **ArcToolbox** and choose **Add Toolbox**.
2. In the **Add Toolbox** dialog box, navigate to the following directory and click the **Extract And Clip** toolbox:
  - <your\_directory>\ArcGISTemplates\ProductionMapping\ExtractAndClip\Application
3. Click **Open**.
4. From the **Main Menu**, click **Selection > Select by Attributes**.
5. From the **Layer** drop-down, choose **GroundA**.
6. In the text box, type **"OBJECTID" = 66**.

7. Click **Apply**.
8. Click **Close**.



9. Click the plus sign  to expand the **Extract and Clip** toolbox.
10. Double-click the **Extract and Clip** model.
11. From the **Table Of Contents**, select all of the feature layers and drag and drop them to the **Input Datasets** parameter.
12. Click the **Browse** button next to the **Target Database** parameter.
13. Navigate to the following directory and choose the **ExtractModel.gdb**.
  - <your\_directory>\ArcGISTemplates\ProductionMapping\ExtractAndClip\MapsandGeodatabase
14. Click **Add**.
15. Click the drop-down arrow for **Filter Feature Layer** and choose **GroundA**.



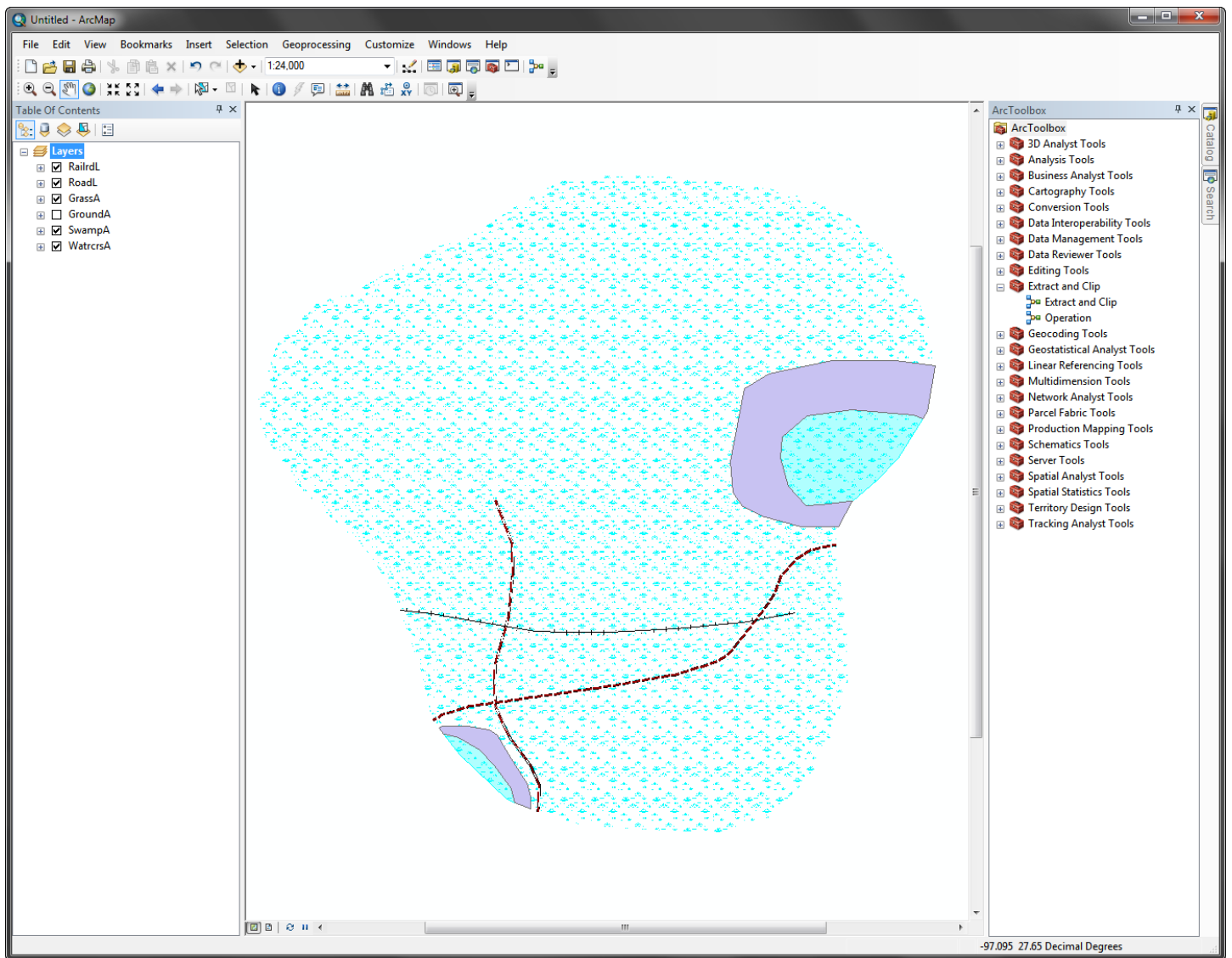
16. Click **OK**.
17. When the operation completes successfully, click **Close**.

### Examine the Results

In this section you will add the results to a new map document.

1. From the **Main Menu**, click **File > New**.
2. Choose **Blank Map**.
3. Click **No** and do not save changes to the **ExtractAndClip.mxd**.
4. From the **Standard** toolbar, click the **Add Data** button.
5. Navigate to the following directory and add all the feature classes from the **ExtractModel.gdb**.
  - <your\_directory>\ArcGIS\Templates\ProductionMapping\ExtractAndClip\MapsandGeodatabase
6. Turn off the **GroundA** layer in the **Table Of Contents**.

*Notice the other features were successfully clipped to the GroundA feature class. The [Multipart to Singlepart](#) tool (ArcToolbox > Data Management Tools > Features) may be used to remove any multipart features.*



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The October 12, 2012 release of the Extract and Clip for ArcGIS 10.1 template is the first release of the template.

### **New Functionality**

N/A

### **Resolved Problems**

N/A

### **Known Issues**

N/A