

# Using RSLog Cross Sections in Slide2

## 1.0 Introduction

**RSLog** allows you to log test holes for soil and rock, in geotechnical, environmental, oil and gas, or mining projects. A feature of RSLog is the ability to design a cross section with your field data. This cross section can be easily imported into Slide2.

In this tutorial you will learn how to:

- Create a cross section in RSLog
- Bring the section into Slide2 using your RSLog account (online)
- Bring the section into Slide2 by uploading a file (offline)

### Note

This tutorial assumes you are familiar with creating a project and defining test holes. To learn how to do this, see the RSLog tutorial, [How to Create a Project](#).

## 2.0 RSLog Project

On your web browser, go to the RSLog login page: <https://www.rslogonline.com/> Login with your credentials.

We will be importing the RSLog project from Excel. To do this:

1. On the left-hand side, select **Data Entry > Import**.

2. Under **RSLog Excel Templates**, click **Import Data**.

Import From Excel

For each project please upload one Excel file for project information, and one Excel file for each test hole (feel free to rename the files as required). Once you upload the files, a new project will be created in your RSLog account:  
Select the Excel file for project (one file only):      Select test holes Excel files (one for each):

Choose Project Excel File      Browse      Choose Test Hole Excel Files      Browse

Import Data      Cancel

3. Next to **Choose Project Excel File**, click **Browse**.

4. Navigate to this path in the Tutorials folder:

C:\Users\Public\Documents\Rocscience\Slide2 Examples\tutorials\Tutorial 41 RSLog  
Import Data

5. Load in "ProjectTemplate.xlsx."

6. Now next to **Choose Test Hole Excel Files**, click **Browse**.

7. In the same directory, select all the "Testhole\_....xlsx" files and load them in.

## 8. Select Import Data.

### Import From Excel

For each project please upload one Excel file for project information, and one Excel file for each test hole (feel free to rename the files as required). Once you upload the files, a new project will be created in your RSLog account:  
Select the Excel file for project (one file only):      Select test holes Excel files (one for each):

ProjectTemplate.xlsx       Choose Test Hole Excel Files

Excel file was uploaded  
Template 1.3 (2022-10-20) was reviewed and verified  
Project data was imported successfully!  
New project was created successfully!

Excel file was uploaded  
Excel file Testhole\_5e45f744-9118-4708-bf3a-d071c11069b0\_Template.xlsx was uploaded and template 1.3 (2022-10-20) was reviewed and verified!  
Test hole data for AH20-2 was imported successfully!  
Excel file Testhole\_8c3555a8-f87b-48d6-9bad-h4e0e9hfe6h8\_Template.xlsx was uploaded and

This will take a few minutes, please wait ...

Once done, you will be taken to the Test Holes project page:

The screenshot shows the RSLog web application interface. The top navigation bar includes the RSLog logo, user name 'demo / BCami', and active project 'Slide2 Tutorial'. The main content area is titled 'Test Holes' and lists three test holes with their respective details.

Name	Depth (ft)	Groundwater Depth (ft)	Investigation Date	Coordinates	Engineers
AH20-1	35	4.7	START DATE: 2020-10-12 END DATE: 2020-10-12	LAT: 49.32205° LONG: -123.11814°	LOGGED: KL REVD: AF
AH20-2	33	6.5	START DATE: 2020-11-11 END DATE: 2020-11-12	LAT: 49.32204° LONG: -123.11928°	LOGGED: KL REVD: AF
AH20-3	30	6.3	START DATE: 2020-11-24 END DATE: 2020-11-24	LAT: 49.3224° LONG: -123.11987°	LOGGED: KL REVD: AF

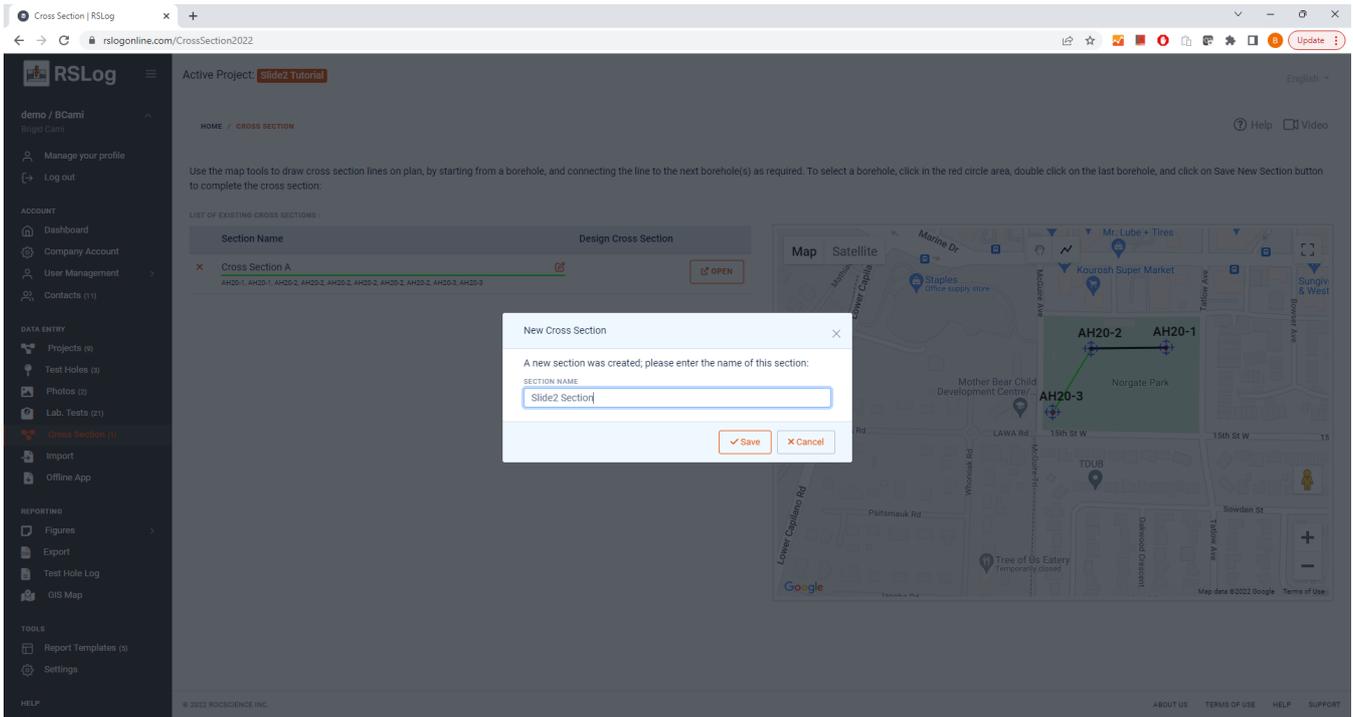
Three test holes have been defined for this project. You can double-click on each test hole to see more information.

Notice the name of the active project "Slide2 Tutorial" in orange at the top of the page.

## 3.0 Create Cross Section in RSLog

We will create a simple cross section between boreholes 1 and 2:

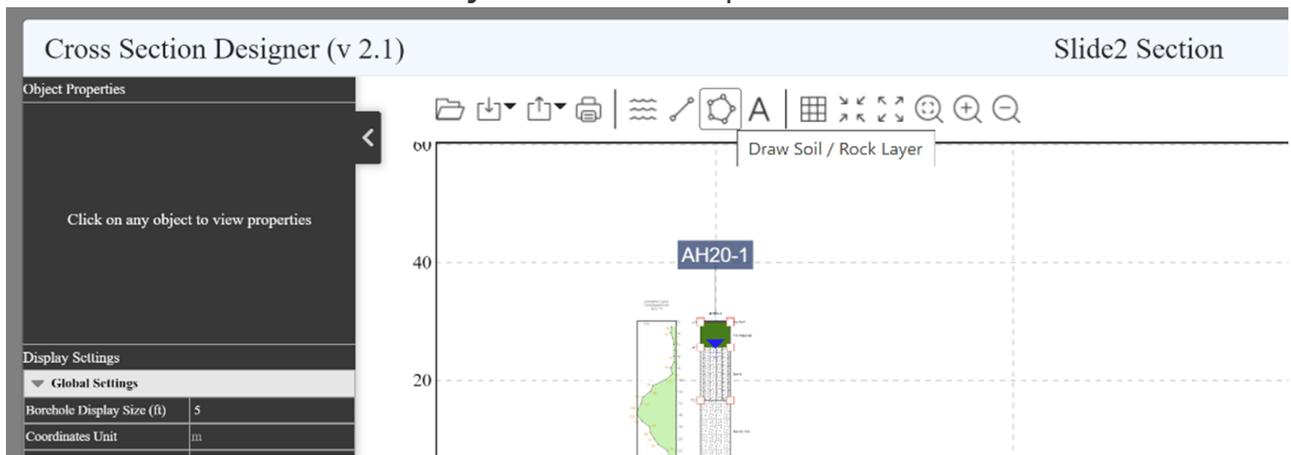
1. Select **Data Entry > Cross Section**.
2. In the map, single click on **AH20-1**. Make sure to click in the center of the blue symbol.
3. Double click on **AH20-2** to finish defining the cross section.
4. In the pop-up, name the section **"Slide2 Section."**
5. Click **Save**.



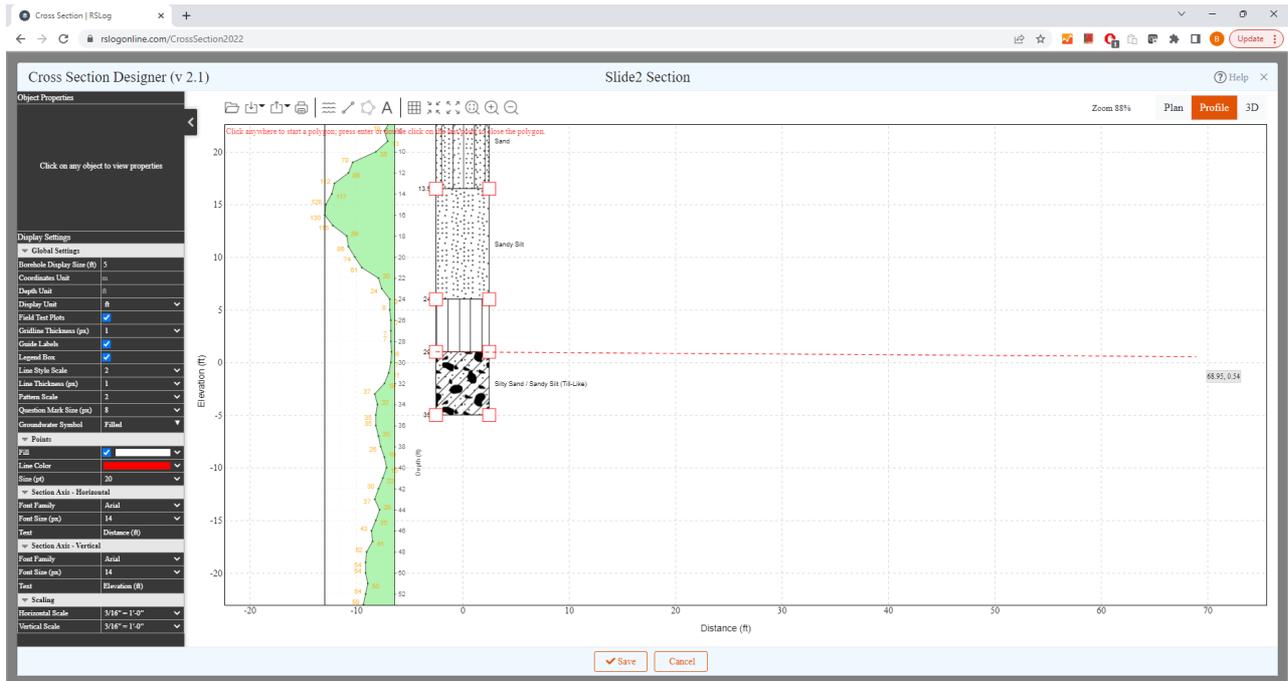
The new section will appear on the list. Click **Open**. By default, you will see the two test holes as well as a legend indicating the materials in each borehole. The legend can be moved out of the way by clicking and dragging.

We will design a simple cross section as follows:

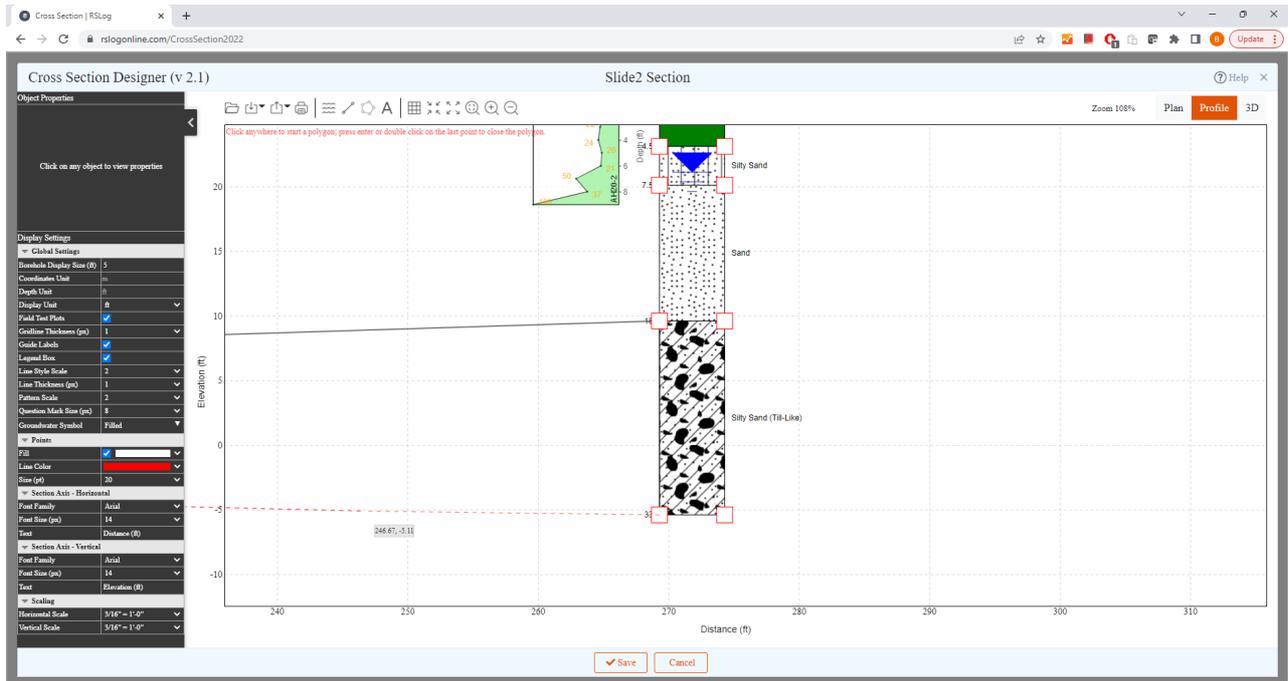
1. Select the **"Draw Soil / Rock Layer"** icon at the top.



2. Starting with the left borehole (AH20-1), and the bottom layer, click on the vertex labeled **29**:



3. Now scroll over to the second borehole by clicking and dragging, and click on vertex **18**. Then click on vertex **33**:

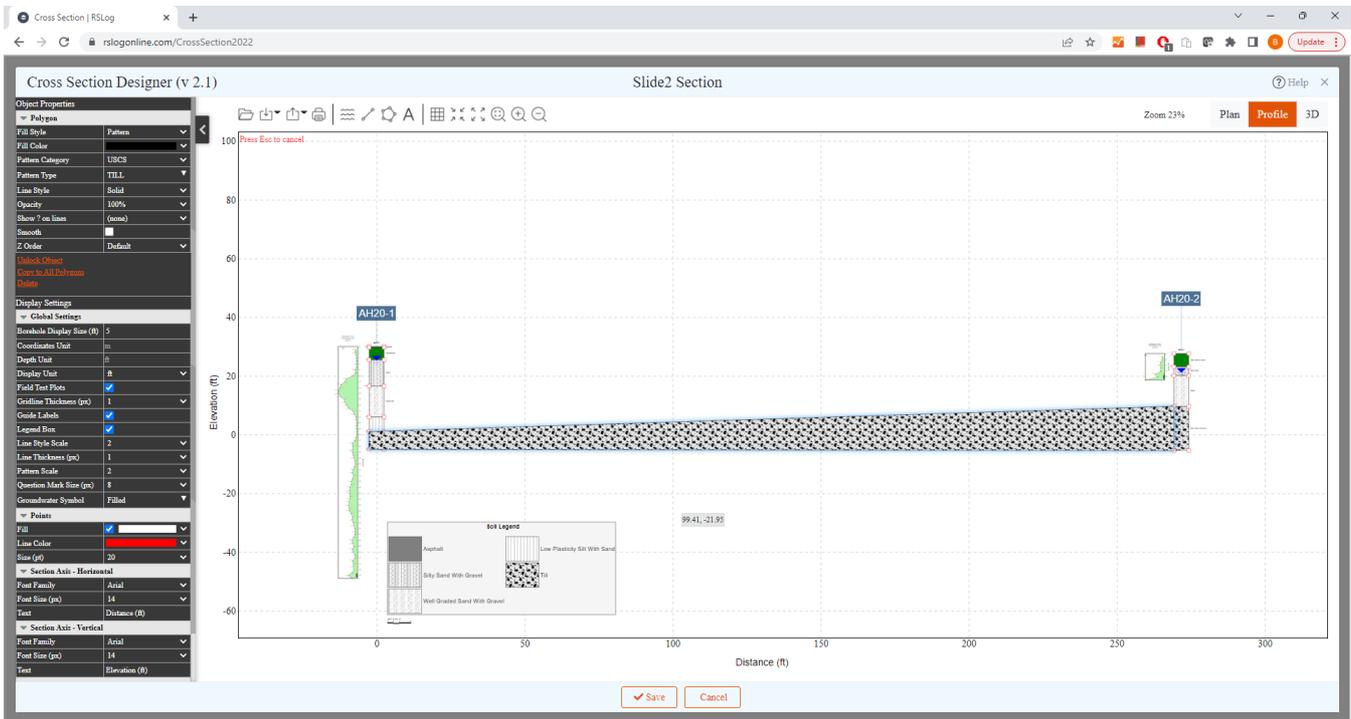


4. Now return to the first borehole and click on vertex **35**. Press **Enter**.

We will assign the appropriate material to this layer.

1. Click on the black polygon.
2. In the **Object Properties** on the left side, under Polygon, change the following:
  1. **Fill Style = Pattern.**
  2. **Pattern Type = TILL.**

Your screen will look as shown:

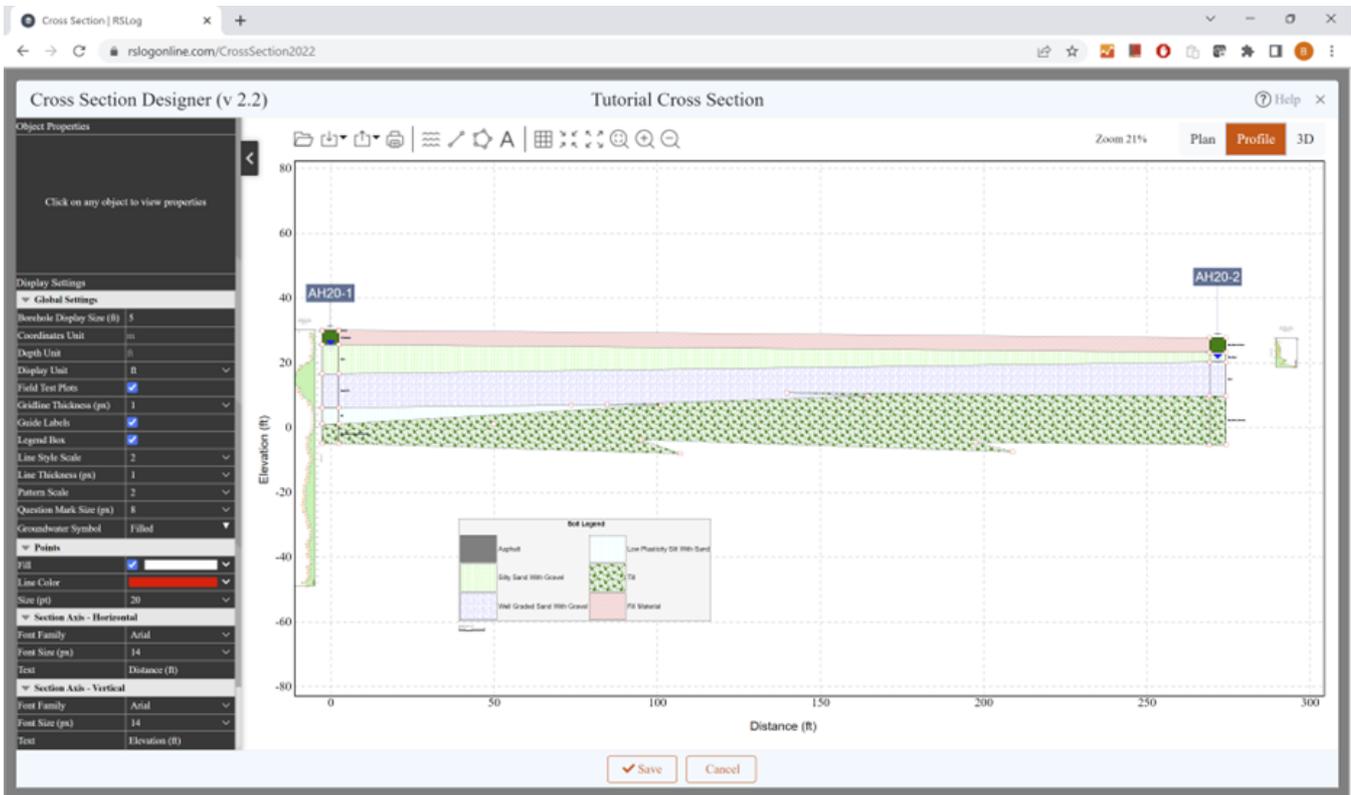


Using the same methodology, you can match the materials in the left borehole to those in the right borehole to design the section with the knowledge you have available. However, we will leave this as an optional exercise. For more information on defining cross sections in RSLog, see [Cross Section Overview](#) in the RSLog help.

For the sake of consistency in this example, we will use a predefined cross section.

1. Click **Save** to close the Slide2 Section.
2. Open **Tutorial Cross Section**.

Your screen will look as shown:



## 4.0 Import Cross Section to Slide2 (Online)

We will now import this section into Slide2 as a soil profile. To do this:

1. Launch Slide2.
2. Select **File > Import > Import RSLog Cross Section** or use the toolbar icon .
3. You will see the dialog below:

**Note**

You can do this either by logging into your RSLog account (online) or by importing a file saved to your machine (offline). We will use the online method. See the end of the tutorial for details on the offline method.

4. Input your credentials in the dialog and click **Next**.
5. You will now see the list of projects in your account. You can click on each one on the left side to see general details about each project.
6. Select **Slide2 Tutorial** on the left side and click **Next**.

Import RSLog Data

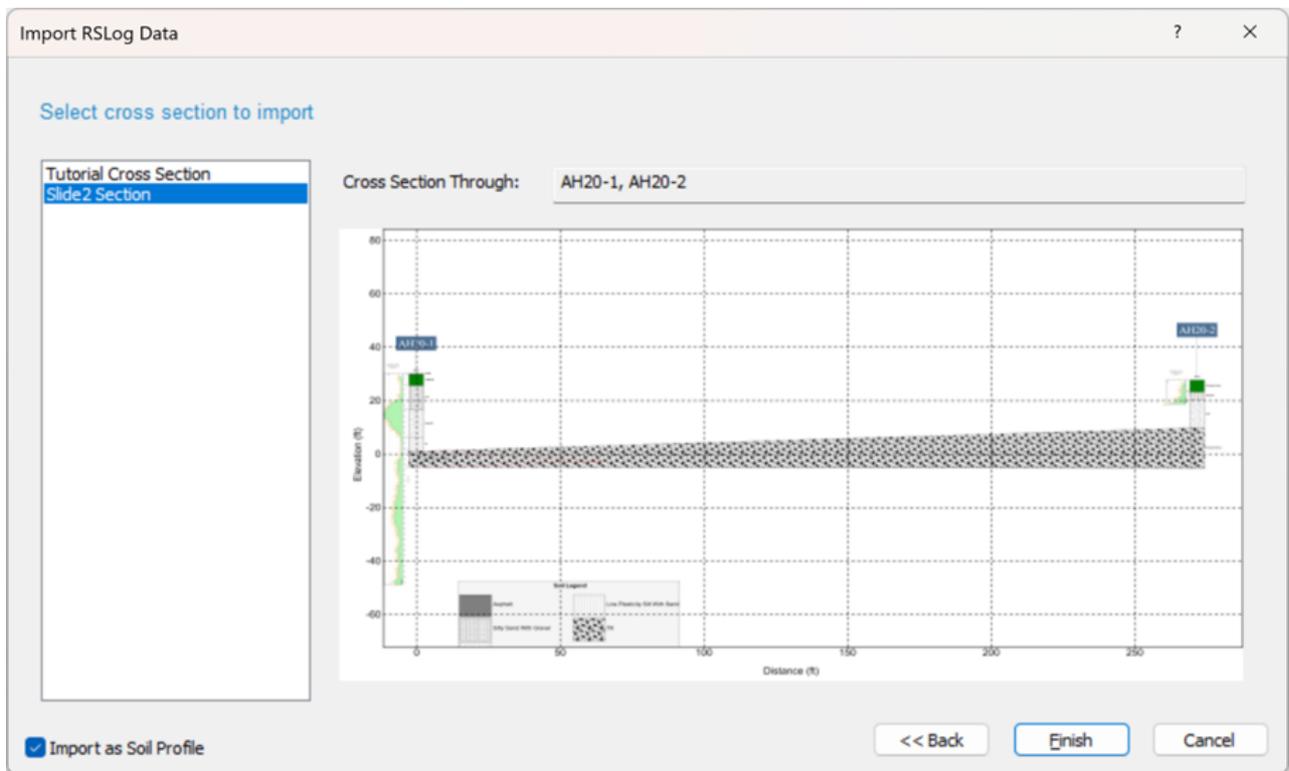
Select a project to import

Name	Project Title
1. RSLog Example Project #1 (Imperial)	Slide2 Tutorial
2. RSLog Example Project #2 (Metric)-c	Project Number EX20-001
3. RSLog Example Project #1 (Imperial)	Unit System Imperial
4. RSLog Example Project #2 (Metric)-c	Client ABC Client Company Ltd.
5. RSLog Example Project #2 (Metric)-c	Address 1500 Marine Dr, North Vancouver, BC
6. RSLog Example Project #1 (Imperial)	Coord System Geographic
7. Slide2 Tutorial	Latitude 49.322700
8. RSLog Example Project #2 (Metric)	Longitude -123.119000
	UTM Zone
	UTM Number
	Notes RSLog example project for geotechnical borehole logging

Number of cross sections defined: 2

<< Back   Next >>   Cancel

7. You will now see the two cross sections defined for this project. Click on each one to see the preview image of each section.



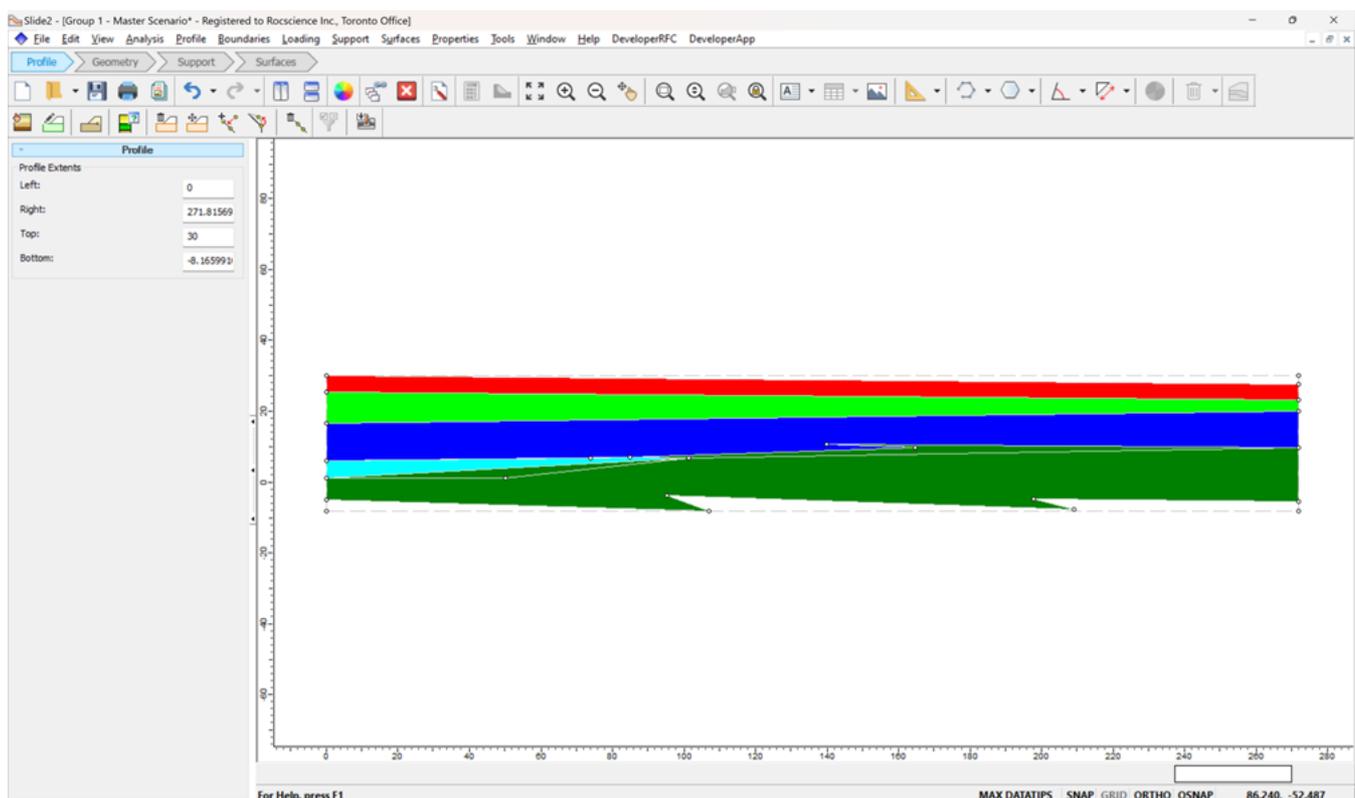
8. Select **Tutorial Cross Section**.

9. Notice the **Import as Soil Profile** checkbox. By default, this is on, since the user would most likely need to cut the slope out of their cross section in Soil Profile mode. If you want to import the cross section directly as a slope, you can uncheck this box.

10. Click **Finish**.

11. The display units of the cross section are imperial whereas the units of the Slide2 project are metric. Click **OK** in the message to automatically switch the units in Slide2 to imperial. Click **OK** again in the units message.

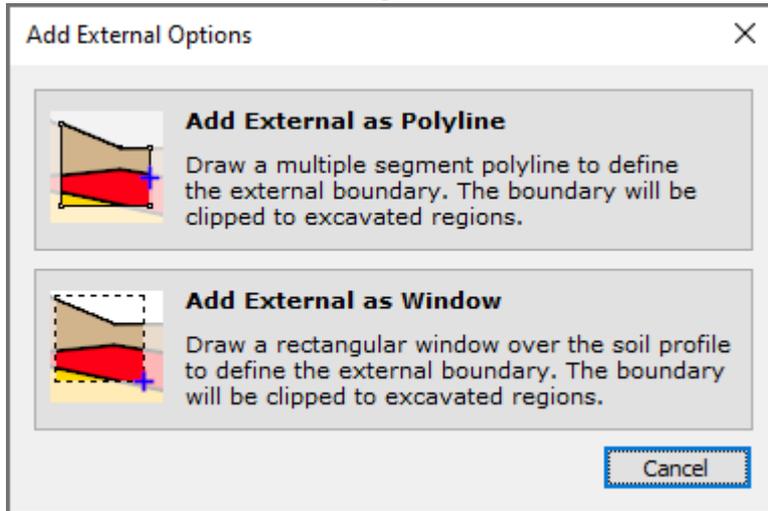
12. You will see the cross-section as shown:



Notice that the colours are imported from the RSLog section. Select **Properties > Define Materials**. The materials displayed are named after the selected hatch. All materials are default Mohr-Coulomb and will need to be defined by the user. Click **Cancel**.

We can now cut the desired slope out of the section:

1. Select the **Geometry** workflow tab.
2. Select **Boundaries > Add External Boundary**.
3. Click **Add External as Polyline**.

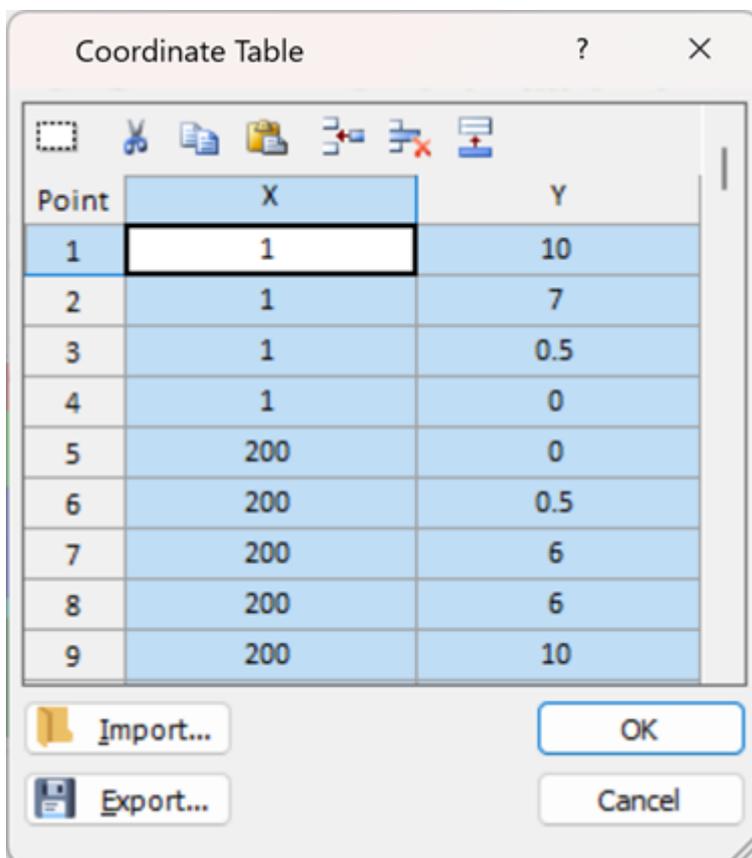


4. We will define the external with a coordinate table. Type t in the command line and press **Enter**. Copy and paste the coordinates shown:

1	10
1	7
1	0.5
1	0
200	0
200	0.5
200	6
200	6

200	10
200	11
180	13
165	13
112	16
68	22
58	27
1	27

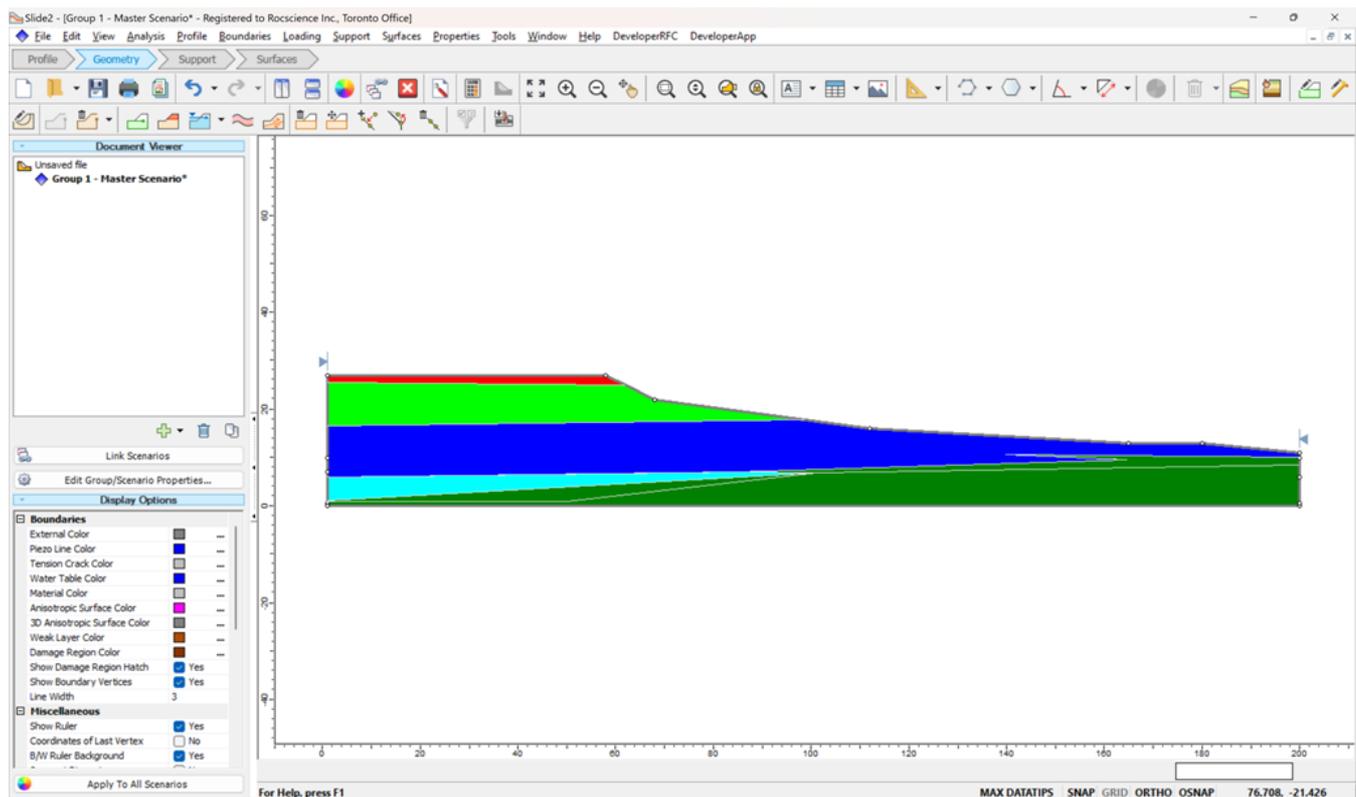
5. The table will look as shown:



6. Click **OK**.

7. Press **Enter** to finish defining the external.

Your model will look as shown:

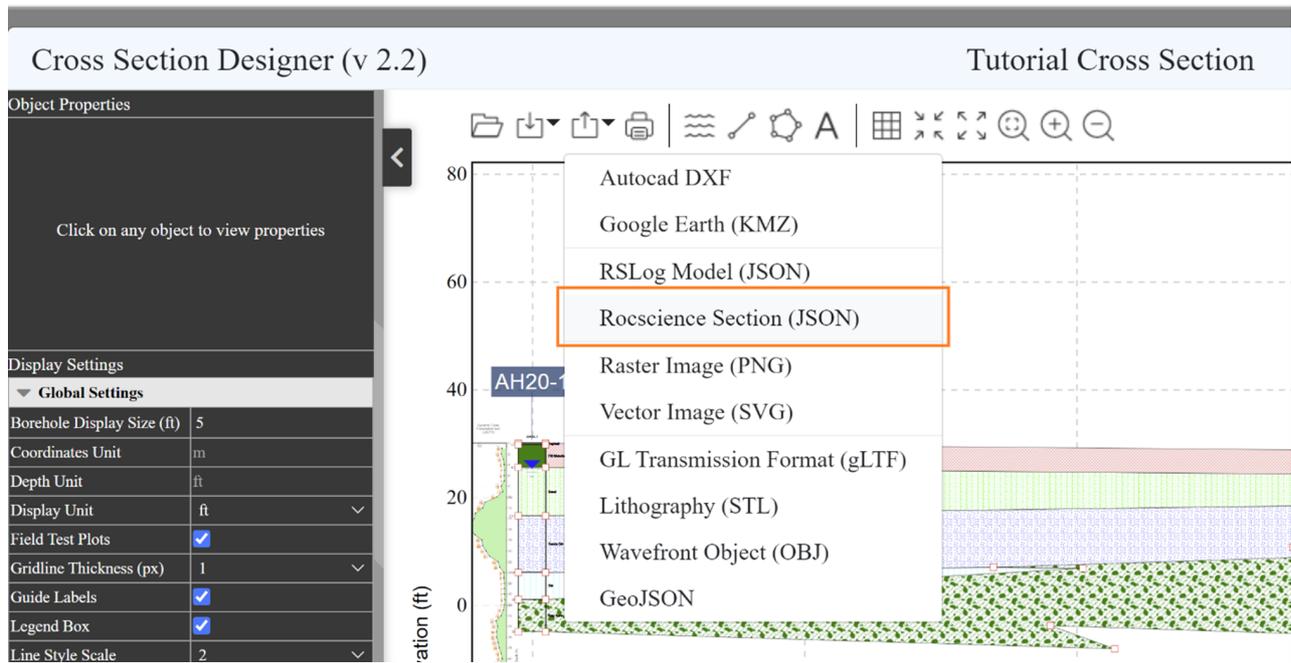


The user can then proceed with material property definitions and compute the analysis. This concludes the tutorial.

## 5.0 Import Cross Section to Slide2 (Offline)

The above example demonstrates the import of the RSLog cross section by logging into your RSLog account. If you won't have internet access while making your Slide2 model, you can export the RSLog section ahead of time as follows:

1. In **RSLog** open **Tutorial Cross Section**.
2. Click on the **Export** button at the top and select "**Rocscience Section (JSON)**". This downloads a Rocscience Section file.



3. In Slide2 select **File > Import > RSLog Cross Section**.
4. This time click the **Import** button in the dialog.
5. Select the file you downloaded in step 2 above and click **Open**.
6. This will import the file in soil profile mode.