

SMAQMD URBEMIS2007 Training

Basics for Beginners Project Example

Project Assumptions:

400 single family dwelling units
150 apartments (suburban typical)
Gas station with 12 pumps
35,000 square foot pharmacy with drive through (Rite-Aid type)
total project size is 110 acres
project will be completed in 2011

Steps:

Open Urbemis 2007 version 9.2.4
In the navigational pane (on the left), step 1, click on "Create a New Project"
In the dropdown list, click on "Create a New Project"
Select the "Sacramento County AQMD" Default File
Enter text in the "Project Description" Field
Click on the "Create Project" button
Enter the Land Use Unit Amounts that correspond to your project
Click the "Submit" button
In the left pane, click on "Step 3: Enter Construction Data"
Double click on "Fine Site Grading"
In the main content pane, click on "Fine Site Grading Equipment"
The third column from the left is "Amt Model Uses". Click the column header twice and notice the sorted equipment assumptions.
Repeat these steps for "Paving", "Building Construction", and "Architectural Coatings"
Click on "Fine Site Grading" tab on bottom of content pane. Then click the "Daily Acreage" tab near the top.
Notice that Urbemis assumes this project is 144.37 acres. Click off the checkmark next to "Reset Acreage with Land Use Changes"
Change "Total Acreage To Be Graded" from 144.37 to 110 (to match our project example).
Change "Maximum Daily Acreage Disturbed" to 27.5, matching the Urbemis default of 25% of total acreage.
In the left pane, click on "Step 4: Enter Area Source Data"
Review the Area Source Emission Sources.
Double click on "Landscape Fuel Combustion". Change "Year Being Analyzed" to 2011 (to match our project example).
Click on "Step 5: Enter Operational Data"
Double click on "Year and Vehicle Fleet" in the left pane. Change the fleet year to 2011 (to match our project example).
In the left pane, click the checkbox next to "Pass-by trips" to make the model adjust trip lengths for pass-by trips.
Note the "Double-counting Correction" checkbox. This should be turned off unless traffic study data is available.
Now, click the "Recalc" cloud on the top of the window.
Notice that a results summary is now shown in the main content pane.
Double click any of the detailed reports in the left pane to see detailed results.
Use the icons at the top of the main content pane to print or export results (to Excel or PDF).

Construction NOx Results Summary:

Always use Summer Pounds Per Day, Unmitigated

	days	lbs
Time Slice 1	20	92.89
Time Slice 2	2	146.22
Time Slice 3	8	138.26
Time Slice 4	1	180.16
Time Slice 5	149	41.9
Time Slice 6	11	42.71
Time Slice 7	10	0.81