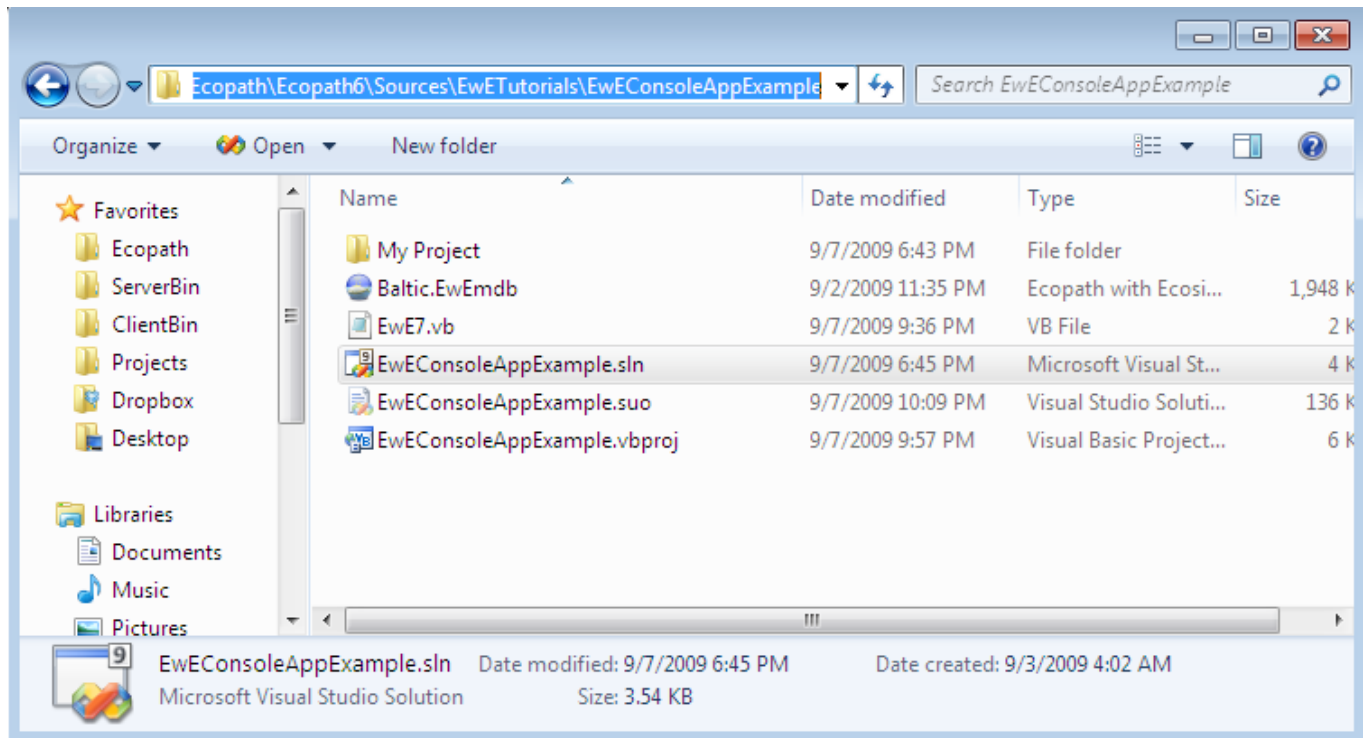# Run Ecopath Console Example

In this example a simple console application is examined that performs the very basic steps needed to work with the Ecopath code: loading a model, running Ecopath, and extracting a value from the Ecopath results. It is assumed that you have access to the Ecopath source code.

i. Open Microsoft Visual Studio or Microsoft Visual Studio Express and open the file
    [EcopathLocation?]\Ecopath6\Sources\EwETutorials\EwEConsoleAppExample\EwEConsoleAppExample.sln

Run the applicaition by hitting *F5* or *Debug>Start Debugging* in the menu. One should see the following written in the console:

```
 Group 'Spring phytopla' EE estimated to 0.2006739
Press a key to exit
```

i. To see the code, find the solution explorer on the right and browse to the file EwE7.vb as seen below.

```vb
' Required external libraries
Imports EwECore
Imports EwECore.DataSources
Imports EwEUtils
Imports EwEUtils.Core

Module EwE7

    ' Main Sub routine called when program is run.
    Sub Main()
        Dim core As New cCore()                         ' (1) Define core and databa
        Dim ds As IEwEDataSource = cDataSourceFactory.Create(eDataSourceTypes.AC

        ds.Open("baltic.ewemdb", core)                  ' (2) Open the database call

        core.InitCore()                                 ' (3) Tells the core to do s
        core.LoadModel(ds)
        core.RunEcoPath()                               ' (4) Runs Ecopath

                                                        ' (5) Writes to the console
        Console.WriteLine("Group '" & core.EcoPathGroupOutputs(1).Name & "'" & _
                          " EE estimated to " & core.EcoPathGroupOutputs(1).EEOu
        core.CloseModel()                               ' (6) Tells the model to shu

        Console.WriteLine("Press a key to exit")        ' Waits and ask the user to
        Console.ReadKey()
    End Sub
End Sub
```

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